· D O G S ·

CONDUCTED BY JAMES WATSON

We have engaged an expert to conduct this department, not only that we may be sure of publishing accurate and authoritative articles, but in order that the individual reader may be able to secure expert advice on all subjects in the kennel field. Your inquiries are solicited. For convenience, kindly address the Readers' Service, COUNTRY LIFE IN AMERICA, *Garden City, N. Y.*

—THE EDITORS.]

THE PEKINGESE

THE startling rapidity with which the quaint Pekingese dog has taken its place as the leader among toy dogs is hardly to be wondered at. He has so many attractive points and qualities that there never was any doubt, after his first introduction, that he would prove to be a winner. Still, his most ardent admirer could hardly expect that the total of 9 shown at New York in 1908 should increase to 216 entered at the specialty club show in December last. The boom really started in 1911, when from an entry of 28 at the New York show of 1910 there was a jump to 95 entered at the first specialty show of 1911. The Pekingese Club at once took a commanding position in the dog world, and in the catalogue of the last club show there is a list of members to the number of 150, including many of our most prominent society people, but by no means confined to them. The late J. Pierpont Morgan was a member, and at the last show both he and James Gordon Bennett presented immense silver challenge cups.

The club numbers on its membership roll almost every exhibitor of the breed in the United States, and the social position of the majority may be gleaned from this list of names of those who are somewhat more prominently connected with exhibiting than are their fellow members: Mrs. William Hobart Ames; Mrs. M. M. Van Buren, the president of the club; Mrs. George Blumenthal; Miss Isabel Benjamin; Miss Sheila Byrne; Mrs. Percy Chubb; Mrs. Frank S. Clarke; Dr. M. H. Cotton; Mrs. Hugh J. Chisholm; Mrs. A. Ronalds Conkling; Miss Alice T. Davison; Mrs. W. H. Day; Mrs. Mark F. Fished; Mrs. Haley Fiske; Mrs. Alfred Goodson; Mrs. Benjamin Guiness, a lady to whom perhaps more than any other member may be credited the high class membership with which the club was started, and who judged at its first show, a position she richly deserved; Mrs. Barker Gunmere; Mrs. M. E. Harby; Mrs. Peter Cooper Hewitt; Mrs. A. L. Holland; Mrs. Henry S. Harper; Mrs. Arthur M. Hunter; Mrs. A. McClure Halley; Mrs. Philip Lydig; Mrs. Allison M. Lederer; Mrs. John R. Livermore; Mrs. Morris Mandy; Mrs. R. P. McGrann; Mrs. J. P. Morgan; Mrs. J. C. Mallery; Miss Edna Marston; Miss Margaret Van Buren Mason; Mrs. Frank Loring Preston; Mrs. George D. Pratt; Mrs. Burke Roche; Miss Anna Sands; Mrs. H. L. Satterlee; Mrs. Charles Steele; Mrs. William Sheppard, Mrs. Paul Sorg; Mrs. James Speyer; Mrs. Louis A. Thebaud; Mrs. Jules J. Vatable; Miss J. Whitridge; Miss Elsie de Wolfe. Mrs. Louis de Lancey Ward may be allowed to make an alphabetical finish, on the biblical principle that the last shall be first, for indeed, as the owner of the great Sheng-Dai which beat all her sex both at the club show and at New York this spring, defeating many of the best obtainable abroad, last place is by no means fitting for Sheng-Dai's owner.

From left to right, Ton-Shi of Eaham, Sardee of Lienrad, Young Lo of Teddington, and Sun of Lienrad

Ch. Chu-Erh of Alderbourne, the crack Pekingese of England. His service fee is five times the amount usually charged

It would almost seem as if the Chinese had devoted years to producing a dog as like their god Fo as possible. Indeed it is extremely difficult at times, in looking over Chinese drawings and pottery as well as carvings, to say whether it is Fo or a dog. Some of our earliest importations direct from China were undoubtedly related to the black pug of China. In litters of these blacks there were frequently perfectly smooth, square-built dogs that could have been shown as pugs. These blacks belonged to Mrs Eva. B. Guyer, who got them direct from Peking from a relative in that city. Her first importation was in 1898, and others followed.

Previous to that, however, the dog was known in England, four having been found in the Palace when Peking was looted by the British in 1860. One of these, appropriately named Looty, was presented to Queen Victoria, and the other three were taken possession of by Admiral John Hay and went to Goodwood Castle as the property of Lord John Hay and the Duke of Gordon. From these the "Goodwood" strain was developed, which was so successful at the English shows.

The "Peke" of to-day is a very much improved dog from what we had even a few years ago. There are more good ones, and those at the top are better. Of course much of this is due, primarily, to importations of a judicious character and backing that up by experience in mating. Considering the number bred here compared with the annual crop in England, our success is something we may well congratulate ourselves upon.

The Peke must be a bold, self-contained looking dog with a good-sized, square muzzle entirely free from snipiness, or pinched appearance, and with no bulldog look. The head should show a flat top outline, the ears held square to the front, being set on high enough to continue this top

Ring Beetle of Minoura, 160847, A. K. C. S. B.

Ch. Nowata Chun of Eaham at one year old

Ch. Sheng-Dai, bred at Huntington, Long Island

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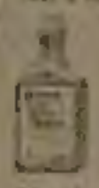

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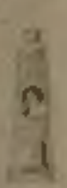

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AUNT BETTY'S CHRISTMAS PRIZE CONTEST

WHAT WAS PUSSY CAT MEW'S CHRISTMAS-EVE DREAM, CHILDREN?

Note: Aunt Betty tells all the children the best-of-all story of Pussy Cat Mew this month. But, dears, the story isn't finished. Aunt Betty wants you to tell her what Pussy Cat Mew dreamed on Christmas Eve as she slept by the dolls' bed with Dolly Blue Eyes. (You may tell what you think she dreamed in ten words or twenty-five, as many or as few words as you like. For the ten prizes which are considered by the editor to be most neatly written and cleverly worded, ten cash prizes of one dollar each will be given. Send your Pussy Cat Mew dream to Aunt Betty, care of THE DELINEATOR, *before December 15th.*

"Don't cry, my dear," she purred

YOUR saucer of milk is under the kitchen table, Pussy Cat Mew.

No, mother dear, I am not going to take Dolly Blue Eyes with me to Grandmother's house. Dolly Blue Eyes is my old doll, and, of course, I shall have a new doll on the Christmas tree.

Little Girl Dorothy tied the fat upper tightly under her chin and jumped into the sleigh that was to carry her and mother way off to Grandmother's house. The house was very still; only the ticking of the clock told the story. It was the day before Christmas, and Pussy Cat Mew and Dolly Blue Eyes were left all alone in the house.

Two tears trickled down Dolly Blue Eyes' cheeks. She was very sorrowful because her little mother had gone away without her. Pussy Cat Mew saw the tears. She didn't mind being left alone, for she always did things when there was no one around to see that you never, never would think a cat could do.

"Don't cry, my dear!" purred Pussy Cat Mew, taking Dolly Blue Eyes in her paws. "I'll see that you have a pleasant day."

The sun shone brightly on the frosty, sparkly snow. It came in through the window and made little gold paths on the red carpet of the playroom floor. It was a long, long time since Dolly Blue Eyes had been taken for a buggy-ride.

Pussy Cat Mew put on a rather large dolls' hat that she found lying on the floor of the playroom clothespress. She put a warm, woolly cap on Dolly Blue Eyes' curly head and seated her in the dolls' buggy. Then Pussy Cat Mew wheeled Dolly Blue Eyes up and down in the gold sunshine paths on the red playroom carpet for a long time, almost ten minutes.

After that Pussy Cat Mew looked over Dolly Blue Eyes' wardrobe. She found it in a most shocking condition. There were holes in the stockings and tears in the frocks; there were buttons gone and many of the shoes were lost. Worst of all, the clothes were dirty. To Pussy Cat Mew, who always kept her little fur shoes and stockings and mittens very clean and washed her face after every meal, this seemed a sad state of affairs indeed.

"What shall I do about it?" thought Pussy Cat Mew in her wise little head. "My paws are too large for mending or sewing. I can wash, though," she mewed, purring over to the corner of the playroom where the little green, wooden washing tub stood on the little white, wooden wash-bench, all ready for the day's work.

She filled the tub with Dolly Blue Eyes' soiled frocks and socks and aprons and under-things. She rubbed and scrubbed and rinsed and hung them up to dry. Pussy Cat Mew didn't really like water, but she could put her paws in it, if it were really necessary. And as Pussy Cat Mew washed, Dolly Blue Eyes sat by and smiled and smiled. You see, she hadn't had her clothes washed in a month.

And after the clothes were all neatly washed, Pussy Cat Mew thought that Dolly Blue Eyes might be hungry. Doing all that large washing had made her a little hungry. As a matter of fact, Dolly Blue Eyes had not had any supper for two months.

So Pussy Cat Mew set the dolls' table with the beautiful dolls' tea-set, white with gold knobs and pink rosebuds—one teapot, one sugar-bowl, one with pitcher and two cups and saucers. She sat in a little chair at the head of the table and Dolly Blue Eyes sat in a little chair at the foot of the table, and they had a beautiful tea-party. Of course there was nothing to eat at the dolls' dishes, but they pretended that they were eating chicken breast and frosted cake, and were drinking cambric tea and clotted cream. It was quite as nice to eat these make-believe fancy things as to have real ones.

And when the tea-party was over, it began to be Christmas Eve. The big round sun dropped down behind the hills like a fat, red apple, and it was so cold that the snow snapped and crackled. The frost hung icy curtains at the windows so that no one could peep out and see Santa Claus' sleigh as it dashed by. All the jingling, jangling sleigh-bells made one think that they were the bells on Santa Claus' sleigh. All the patterning hoofs of the horses made one think that they were the hoofs of Santa Claus' reindeer. The house was warm and cozy.

Pussy Cat Mew as a chauffeur

Doing all that washing made her hungry

Pussy Cat Mew put the dolls' beds with the white sheets and dolly pillows close up to the hearth. She and Dolly Blue Eyes got into the dolls' bed and lay down side by side. Pussy Cat Mew put her warm, furry paws close around Dolly Blue Eyes.

"We have had such a very nice day, dear, haven't we?" purred Pussy Cat Mew to Dolly Blue Eyes. "We haven't been lonesome a minute and we've been oh, so busy. Do you know Dolly Blue Eyes

"It's the night before Christmas
And all through the house
Not a creature is stirring,
Not even a mouse——"

But before Pussy Cat Mew could finish telling Dolly Blue Eyes this Christmas bedtime story, her purring grew softer and softer, and then stopped altogether. Pussy Cat Mew was asleep. This looks like the end of the story, but it isn't.

What did Pussy Cat Mew dream?

There—what did Pussy Cat Mew dream?

September Prize-Winners

Billy Sutton, Oklahoma	5 years
Elmer Knippenbach, Pennsylvania	7 years
Margarite Abel, South Carolina	8 years
Sarah E. Williams, Massachusetts	8 years
Olive Marie Niemeyer, Arizona	9 years
Emily Reed, Indiana	10 years
Miriam Brown, Texas	11 years
Marjorie L. Wiley, Canada	12 years
Lydia Walds, Illinois	14 years
Kathryn Kelly, New York	15 years

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The Winton Six (not any other car) made six cylinders standard, and forced four-cylinder cars from the high-grade market. Supreme excellence did it, and you will find that supreme excellence in the Winton Six.

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The Winton Six holds the world's lowest repair expense record—29.2 cents per 1000 miles No other car holds that record, or anything like it. If you want this sort of enduring goodness, look for it in the Winton Six.

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For seven years Mr. Winton has devoted himself to the perfection of a single model exclusively. He has had just one aim—to keep the Winton Six ahead of all other cars in beauty, comfort, mechanical excellence, and value. No wonder the 1914 Winton Six is the fashion plate of American motor cars.

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Note this: Be careful in selecting a car this year, ***more careful*** than ever before. There are startling reasons why. We tell them in our Book No. 14. Shall we send you a copy?

The Winton Motor Car Co., 103 Berea Road, Cleveland, O.

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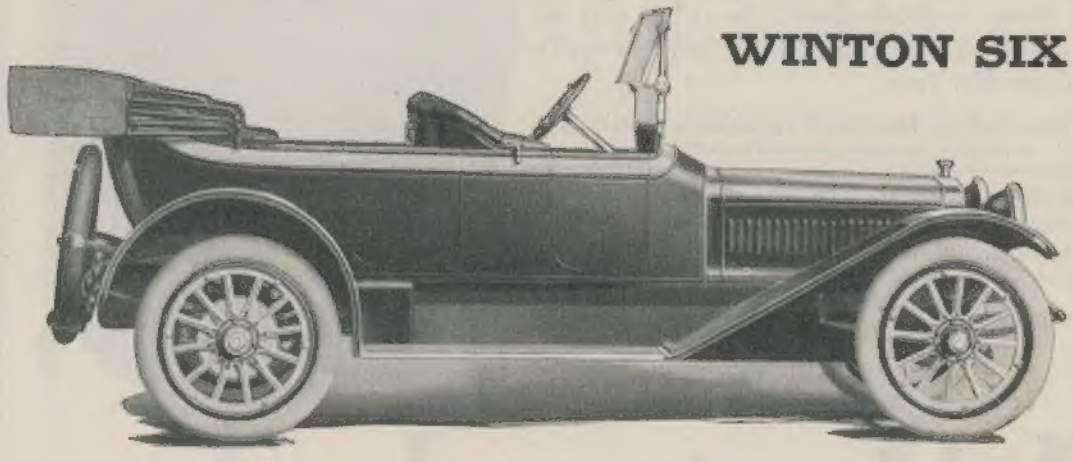

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If what you want is not advertised on these pages, see page 6 of this issue

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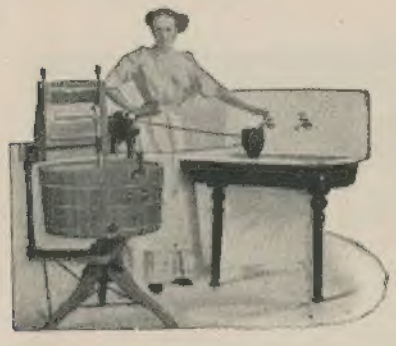

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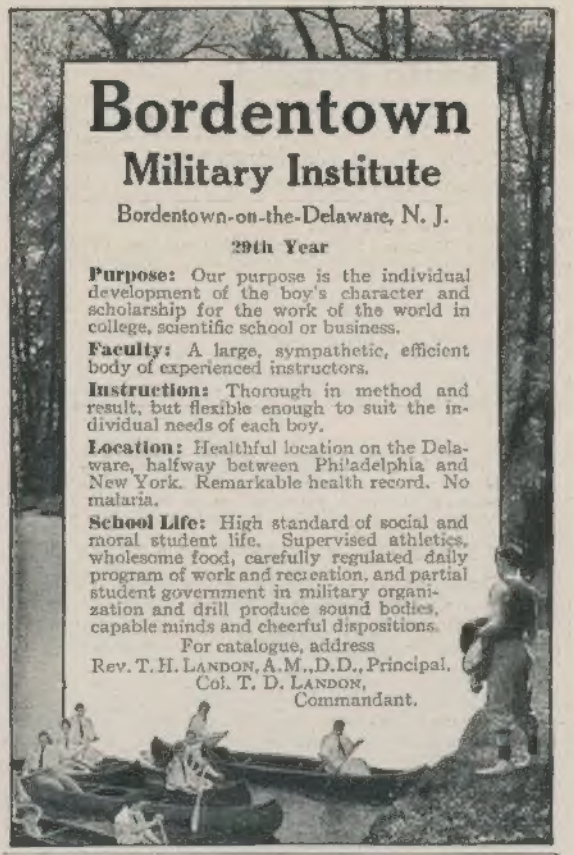

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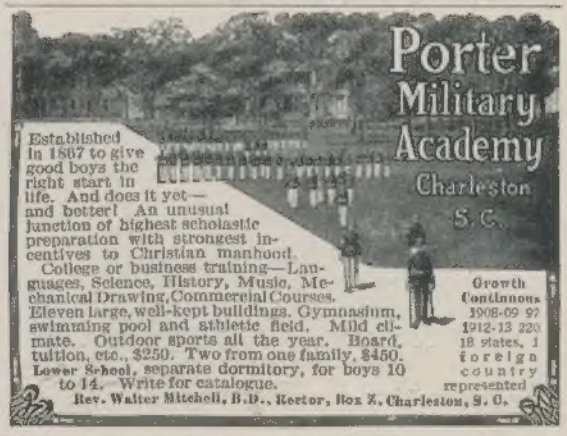

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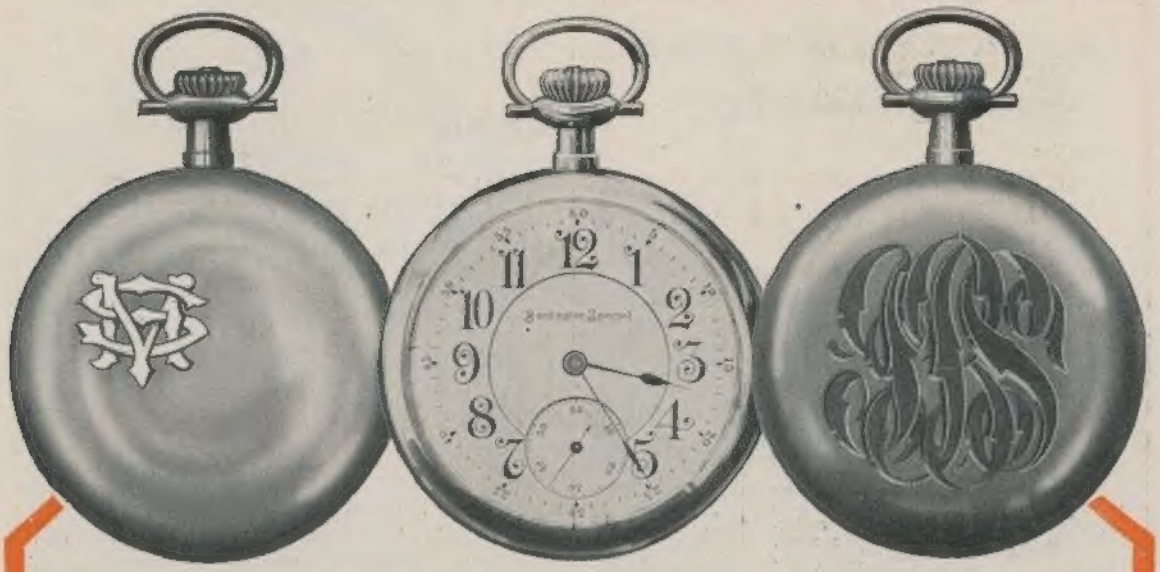

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When You Eat *Anything*

Think of Santa Barbara County!

For Santa Barbara County produces most anything that man desires for food. Perhaps the seeds which you are preparing to plant in your garden this spring came from Santa Barbara County. The immense seed farms round about Lompoc send millions of seeds out every year.

When you burn oil or use oil for light or fuel, think of Santa Barbara County, for the oil wells round about Santa Maria produce 7,000,000 barrels of oil annually.

When you use sugar in your tea or on your berries, think of Santa Barbara County, for the great sugar factories produce millions of pounds annually.

When you eat beans, think of Santa Barbara County, for a quarter of a million sacks of beans are shipped from this county every year.

And when the sun shines bright and warm, when you feel that here is a day worth while, when you long for the blue waters of the ocean, when you dream of magnificent hotels and a glimpse of the old missions—think of Santa Barbara County, for the citizens of Santa Barbara County have such things ALL THE TIME.

Drop a letter to either of the following for further information

Santa Barbara Chamber of Commerce - Santa Barbara, Cal.
Lompoc Chamber of Commerce - - - - Lompoc, California
Santa Maria Chamber of Commerce - Santa Maria, California

LONG BEACH—California

Long Beach— Has twenty-seven fine churches, twelve schools costing over $1,000,000, three beautiful parks, a four-mile walk of ten thousand lights.

Long Beach— Has a commodious harbor on which $1,250,000 has been spent, the Craig Shipbuilding Plant that has contracts for $1,500,000 worth of vessels this year.

Long Beach— Has salt works, glass factory, canning company, yacht works, shell jewel factory, sash and door factory, lumber mills, etc. The above industries are natural attractions for others.

Long Beach— Has built over 600 residences during the past year, and so far this year the building permits have reached $2,350,000, and still building.

Long Beach— Has two transcontinental railroads, a network of electric roads, a beautiful boulevard twenty-two miles long connecting with a $3,500,000 system of county boulevards.

Long Beach— Has all of the above realized opportunities; has unlimited opportunities to offer you.

ONE OF THE FINE HOMES OF LONG BEACH

For Free Descriptive Booklet or Full Information, write today to

R. L. BISBY, Secretary, Long Beach Chamber of Commerce, Long Beach, California

"Put in six of the Vegetable, she says."

And many of his customers say the same thing. In fact this is how most of the practical housewives always order

Campbells' VEGETABLE SOUP

Everybody likes it so much and wants it so often—with its fresh, wholesome, right-out-of-the-garden flavor—that you save time, and avoid disappointment by having a supply always on hand.

Hadn't you better order this nourishing, satisfying Campbell "kind" *today?*

Why not phone your order right now? *Your money back if not satisfied.*

"Twas Campbell's Soup
That made me bold
To breast the foaming sea,
However cold
The waters rolled
'Twas warm inside of me."

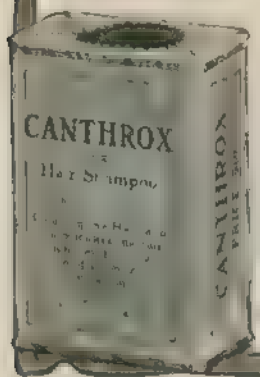
21 kinds 10c a can

Asparagus	Clam Chowder	Pea
Beef	Consommé	Pepper Pot
Bouillon	Julienne	Printanier
Celery	Mock Turtle	Tomato
Chicken	Mulligatawny	Tomato-Okra
Chicken Gumbo(Okra)	Mutton Broth	Vegetable
Clam Bouillon	Ox Tail	Vermicelli-Tomato

Look for the red-and-white label

Shampoo with CANTHROX

and obtain that exquisite cleanliness which comes only from a perfect shampoo. Canthrox cleans the hair and scalp thoroughly, completely and satisfactorily. There is nothing like it for creating plenty of fine, rich lather that will remove every atom of dust, dandruff and excess oil making a clean, healthy scalp from which beautiful hair will grow.



15 Delightful Shampoos, 50c

Just dissolve a teaspoonful of Canthrox in a cup of hot water and your shampoo is ready—a shampoo that is a natural tonic and cleanser, pure in its ingredients and constructive in its action. After a Canthrox shampoo the hair dries quickly and evenly, and will be ever so soft, fluffy and easy to do up.

Trial Offer: For your name, address and a 2-cent stamp, we will send sufficient Canthrox for a shampoo so that you may try it at our expense.

H. S. PETERSON & CO., 408 Kinzie St., Chicago, Ill.

Canthrox Shampoos are given in first-class Hairdressing Parlors

Copyright, 1913, by H. S. Peterson & Co.

C. P. R. MEN KNOW WHERE TO BUY IN COQUITLAM

Scores of Canadian Pacific Railroad Employes have Just Bought Their Home Sites From Us in Meridian Center, Coquitlam -the New Pacific Terminus of the C. P. R. Transcontinental System.

FULL SIZE LOTS $300 And Up

$25 Cash and $10 a Month—

Or Terms to Suit You

NOBODY knows better than the men employed by the Canadian Pacific Railway as to the best locations and properties in Coquitlam, the new, rapidly developing industrial and transportation center of Vancouver, B. C., "The New York of the Pacific." More than sixty of these men have bought lots from us in Meridian Center, the ideal residence district of the new Terminal City — full-size, level lots, close to the business, industrial and shipping center, but a few minutes' walk from all the big shops, terminal yards and industrial plants. Meridian Center is also on the main thoroughfare. It is now and always will be in the choicest demand.

CUT THIS OUT

Write in your Name and Address and send it to McTAVISH BROS., 730-733 Rogers Building, Vancouver, B. C., at once. This will insure the personal attention of Mr. Crux, who will have forwarded to you free much valuable and accurate information about Coquitlam.

*Name*_____

*Street Address*_____

*City and State*_____

WE HAVE SOLD nearly a quarter of a million dollars' worth of Meridian Center lots since we started this campaign—and now that the C. P. R. Terminals are complete in the first units, the property is being snapped up rapidly. On December 11, 1912, we sold six lots to one man and fifteen lots to another, all as sites for modern cottages built to supply immediate demands. The Haynes Ornamental Cement and Staff Works near our property is under construction and will employ 50 men at the start, while the extensive plant of the Call Switch Company, occupying a seven-acre site, is nearing completion. Some of our very choicest Meridian Center lots are still available to investors at the opening prices. Those who have kept in touch with Coquitlam will appreciate this as an unusual opportunity.

McTAVISH BROS.

GEO. C. CRUX, Manager Real Estate Dept.

SUITE 730-733 ROGERS BUILDING

Vancouver : : Canada

MARY ANN!
You can
just WAIT.

DYNETO-ENTZ

Electric Starter and Lighting System

"Known as The Simplest Starter Recognized as The Most Efficient"

Kick or Throw on the simple switch shown on dash of car below. Nothing else to do. No buttons to press, no dials to watch. The DYNETO-ENTZ STARTER immediately spins the engine and keeps it spinning for one-half hour or more if necessary.

MOTOR BECOMES A GENERATOR

When the car attains a speed of ten miles the Dyneto-Entz immediately changes from a motor to a generator. Without the aid of automatic device or any attention from the driver. This combination motor-generator is simplicity itself. There is only one moving part. Direction of current is controlled by the power of the armature through its magnetic fields.

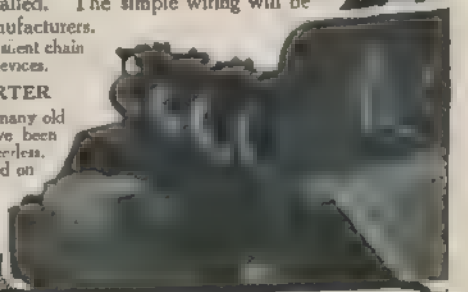
PREVENTS STALLING OF MOTOR

When the car speed drops below ten miles the Dyneto-Entz changes back to a motor, assisting the engine and preventing stalling. You don't have to throw on any gears, watch any volt-meters or ammeters; turn off the gas and the Dyneto-Entz Unit keeps the engine going. You can keep going in crowded traffic on high gear. This feature is of untold value.

This is the most satisfactory starting system for the car owner and the most satisfactory for the car builder. It adds to the safety, ease and convenience. It means less strain on the car, less strain on the engine. It has never been known to fail. The storage battery is so constructed that it cannot be injured by overcharging.

NO COMPLICATED WIRING

The Dyneto-Entz being a single unit system is easily installed. The simple wiring will be found of great advantage to both individual and car manufacturers. The Motor Generator is permanently connected to the engine by silent chain There are no extra coils, no solenoids or no delicate electrical devices.



YOU WILL LIKE THIS ELECTRICAL STARTER

The Dyneto-Entz being so simple can be installed on many old cars now in operation. Satisfactory installations have been made on Cadillac, Stoddard-Dayton, Pierce, Peerless, Lozier and others. If it can be properly installed on your car it will surely give satisfaction.

Standard Equipment on Franklin and White Cars

Before you decide that an Electric Starter can not be installed on your old car write us. Before you select a Starter for your new car write us.

We have a proposition of special interest to Garages and Manufacturers.

The DYNETO ELECTRIC CO., Dept. C, Syracuse, N. Y.

Plant devoted exclusively to the manufacture of Starters and Lighting Systems.

SALES AGENTS—T. J. Wetzel, 17 W. 42d Street, New York City

Be Your Own Beauty Masseuse

Power of Electric Massage for You

Rejoice in the beauty and health that you want—health that glows in your skin, sparkles in your eye and thrills you with new power. Science has placed the means of getting the greatest benefits of electric massage within the reach of every man and woman. It is the Home Electric Massage Battery. Its marvelous power is in its gentle and refreshing radiance of faradic electricity. It is the latest, newest and most convenient scientific application of faradic electricity. Every home needs one. Sent on 10 days' free trial. Write for all particulars.

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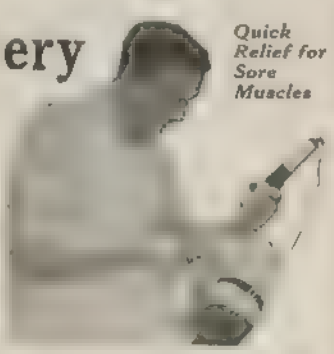
While brushing your hair in the usual way you get the benefit of electric treatment. It helps to restore the scalp to its normal condition. It helps to make woman's hair more luxuriant and beautiful. It saves men from premature baldness. The scalp treatment alone is worth more than the price of the Home Electric Massage Battery. Every man and woman will appreciate the benefits to hair and scalp afforded by faradic electricity as generated by the Home Electric Massage Battery.

Dispels Every Ache

Faradic electricity is the scientifically acknowledged force for quickly relieving rheumatism, headache, and other nerve pains. Your physician will tell you that faradic electricity will dispel every ache due to imperfect conditions of blood circulation. Faradic current as generated by the Home Electric Massage Battery, will give more health to the tissues, the nerves and the circulation of the blood than any other treatment known.

Home Electric Massage Battery



Quick Relief for Sore Muscles

Take the Home Electric Massage Battery with you when you travel. Use it anywhere. Faradic current will refresh you when you are fatigued or exhausted. Take an electric foot bath with the Home Electric Massage Battery. It is always ready for your foot bath. Simply drop the induction plate in your foot bath and get the same treatment for which people pay big fees. Faradic electricity as a help to beauty and health is proved by years of universal use.

10 Days' Free Trial

10 days' Free use to prove to you that the Home Electric Massage Battery is worth more to you every week than the special low price for it now. Your money back if you are not delighted with it. The very special low price is open to all who write promptly. Don't neglect yourself. Don't wait. Send the coupon today for all particulars of our free trial offer and a copy of massage book free.

Massage Book Free

Write for our free illustrated booklet on the use of electric massage as an aid to beauty and health. This valuable booklet [illegible] is very important for your health. Your name and address brings this booklet to you post-paid together with our very special low price on the Home Electric Massage Battery and full particulars of free trial offer. Send today.

Send Coupon today

Fill out and send the coupon or copy it on a piece of paper. The very special offer on the Home Electric Massage Battery is limited. Send for all particulars without delay and get a copy of our massage book free. Write today.

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Massage Book Coupon

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Gentlemen: Please send me copy of your massage booklet and special price and all particulars of 10 days' free trial offer on the Home Electric Massage Battery.

NAME ...

ADDRESS ...

AT YOUR COMMAND

NARCISSUS

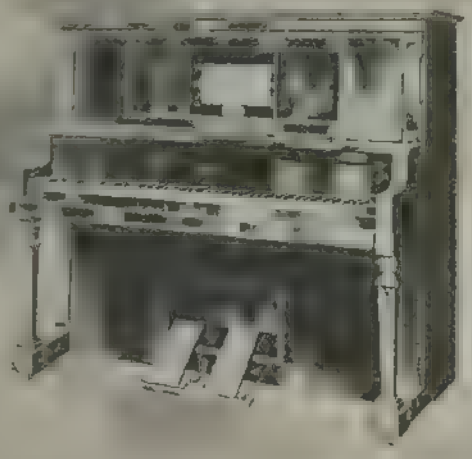
ROBIN HOOD

BEETHOVEN'S SONATAS

DOLLAR PRINCESS

PINK LADY

DIXIE



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The Emerson Player-Piano

Enables every one to interpret, *correctly* and *musically*, any musical selection
(Only an artistic piano combined with a versatile player action insures this result)

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If you have had the misfortune to lose one or both of your arms **send at once** for our profusely illustrated and most interesting catalog P. The photographs from life showing Carnes Artificial Arms and hands in use by one hundred and fifty users wearers written ***with*** the Carnes arm and hand will convince you that here at last is an artificial arm that is ***practical.***

Looks Natural and "Acts" Natural

The Carnes Arm permits of a far wider range of useful activity than any other artificial arm ever made. Mr. Ed. F. Smith of Falls City, Nebr. (picture above), wears two Carnes Arms. He dresses himself completely, even to putting on his own collar and tie and lacing his shoes without any assistance whatever.

Other wearers, of both sexes, perform the duties of their various vocations with little or no trouble. They run automobiles, stationary engines, do farm and office work, carry suit or sample cases, write, drive horses, ride bicycles, pitch hay, shovel coal, sew, sweep, do housework, and a multitude of other things.

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"EVINRUDING" THROUGH THE WATER

TO those who desire the pleasure of motor boating without the usual large investment of a motor boat, the

EVINRUDE
DETACHABLE
ROW BOAT MOTOR

Is the acknowledged solution of the problem. This portable motor attaches to and detaches from any rowboat in less than one minute without any change in the construction of the rowboat.

The motor carries like a satchel as it weighs but 50 lbs. and it will drive a rowboat eight miles an hour. It has a weedless propeller; it starts with a swing of the fly wheel (no cranking), anyone can operate it. Summer pleasures that you never realized before are open to you if you own one.

Beautifully illustrated catalog sent upon request.

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$5.50 buys this GUARANTEED TENT

Unheard of Introductory Price

Wall Tents Full weight, 8 oz. Duck, double lap seams, complete with tent poles, ropes, pins, etc. All ready to set up—Wonderful bargains.

7 x 7	$5.50	12 x 14	$12.25
7 x 9	6.55	14 x 16	16.00
9 x 12	9.10	14 x 18	[illegible]

These Exceptional Bargains

are offered for a short time only. Save money by buying direct from the largest, most reliable manufacturers of Tents, Awnings and Campers' supplies in the country. Supplying the U. S. War Department.

Let us tell you about our new Watershed and Mildew Proof Process. Write at once for **free descriptive booklet** and price list on **everything made of canvas.**

Get your letter to us quick before these big bargains are snapped up.

THE HETTRICK BROS. COMPANY
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Big Appetites Thank These Baskets

A small piece of ice in a Hawkeye Refrigerator Basket keeps lunch and bottles cold all day. An outdoor lunch from a "Hawkeye" doubles the pleasure of your motor boat or auto trip. Rids you of unappetizing food or drinks! Our Free Booklet tells all you want to know about outdoor lunches.

The Hawkeye "Tonneau" Basket—Made of strong rattan, finished in beautiful dull green, inside lined with heavy, non-rusting nickel plate surrounded with asbestos wall. Ice compartment detachable; made of zinc, nickel plated. Basket is insect and dust-proof. Strapped with nickel-plated [illegible] buckle. All prices most reasonable.

The Hawkeye "Tonneau"

"A rest and a **Hawkeye** *add seat to the trip"*

Refrigerator Basket

The Hawkeye Fitted Lunch Basket—A full-fledged dining outfit, containing coffee pot, saucepan, plates, cups, knives, forks, spoons, etc. A complete luncheon outfit for large outing party.

Hawkeye Fitted Lunch Basket

Write!

Send for our Prices on Refrigerator Baskets. Ask for Free Booklets about baskets, contains recipes for outdoor dishes. We send you name of "Hawkeye" dealer in your community. Write now, while you think of it. (3)

The Burlington Basket Co.
38 Main Street, Burlington, Iowa

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THE World's Record for speed on the water is held by a motor boat 45.22 miles an hour. A measured mile in less than one minute and twenty seconds: *Howard time.*

Forget for a moment that speed boat racing is a sport. Consider its *practical* results. At any given price, compare the motor boat of today with that of a few years back.

In every American industry you will trace all its progress to hard-headed efforts to beat the record for efficient use of time.

When you see a concern forging ahead of competition, stamping its individuality on the trade—there you find the HOWARD type of man putting the thing across.

The HOWARD Watch owner may be the titular head of the concern, the Superintendent or Department Manager. It is just as likely to be some inspired youngster, who would probably disclaim any part in moulding the career of the business. As if he could help exerting the power he does!

A HOWARD Watch is always worth what you pay for it.

The price of each watch is *fixed* at the factory and a printed ticket attached—from the 17-jewel (*double roller*) in a Crescent *Extra* or Boss *Extra* gold-filled case at $40, to the 23-jewel at $150—and the EDWARD HOWARD model at $350.

Not every jeweler can sell you a HOWARD WATCH. Find the HOWARD jeweler in your town and talk to him. He is a good man to know.
Admiral Sigsbee has written a little book, "The Log of the HOWARD Watch," giving the record of his own HOWARD in the U. S. Navy. You'll enjoy it. Drop us a post card, Dept. J, and we'll send you a copy.

E. HOWARD WATCH WORKS
BOSTON, MASS.

TOM SAWYER HUCK FINN AND AUNT POLLY

Two Hours Ride From Los Angeles

Fontana Orange Groves

FULL BEARING GROVE ON FONTANA TRACT

YOUNG FONTANA ORANGE GROVE

$500 PER ACRE

Ideally located citrus groves only 2 hours ride from Los Angeles—in a beautiful community with all the modern improvements. Possess a bountiful water supply. A share of water stock goes with each acre. Fontana groves are cultivated and scientifically for absent owners at nominal cost. Refer to any Los Angeles bank relative to responsibility of the Fontana Company, owners and developers of the tract. $375.00 is considered a fair price for an 80 acre grove in this district. Southern California groves are netting their owners from $200 up to $1000 per acre yearly.

Write today for illustrated booklet to

THOMAS D. CAMPBELL & CO., Selling Agents, 625 So. Hill Street, Los Angeles

Maricopa County ARIZONA Wants You

Write for literature at once

To the northern and eastern farmer who has been making a living against the odds of uncertain climate, with a short growing season and a very limited variety of crops and an uncertain water supply, the great Salt River Valley offers exceptional opportunities. The soil is rich and very productive and there is an abundance of "stored water" in the great Roosevelt Dam, for all irrigation purposes. Thousands of acres are ready for the plow. Low railroad rates from Los Angeles on Wednesdays and Fridays in parties of three or more

Cheap Land—Abundance of Water

Phoenix is growing rapidly. There are other good towns in the fertile Salt River Valley, such as Mesa, Tempe, Glendale and the new town of Chandler. There is a Valley west of the Salt River Valley known as the Buckeye Valley, where special attention is also given to alfalfa, seed, stock raising and honey. Good markets. Railroad facilities excellent. Maricopa County prides herself on her splendid schools.

$40.00 per acre is about the average net profit from raising alfalfa. They cut an average of six tons to the acre and this has been selling from $8.00 to $16.00 per ton

WHEN WRITING, USE COUPON ☞

Tear off **Coupon** and mail to **Vernon L. Clark, Immigration Commissioner** Dept. Four 403 Fleming Block **Phoenix, Arizona**

Please send me literature

NAME .

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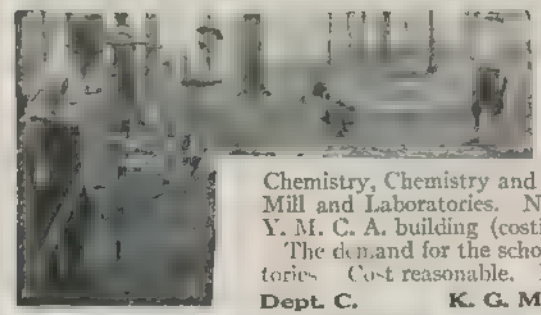
CITY STATE

GEORGIA SCHOOL OF TECHNOLOGY



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We guarantee steady employment to all graduates of the Illinois Training School for Nurses of the Chicago Hospitals. Instruction is practical and theoretical training in Cook County Hospital (1900 beds), the second largest hospital in the world, with its new surgical building [illegible], one of the best equipped in the country. Experience gained here cannot be equaled anywhere. Contact with greatest variety of cases and foremost doctors. Training in Private Hospital. **Three-year course. Seven Scholarships.** Special Courses, Obstetrical Department, Children's Hospital and Lectures by leading physicians and surgeons. **Social Service Work,** the newest department of hospital service.

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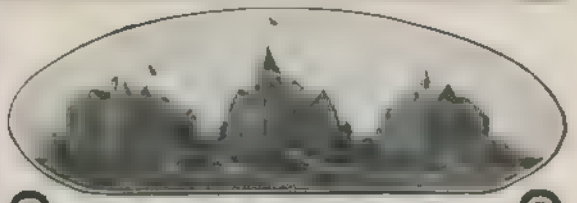

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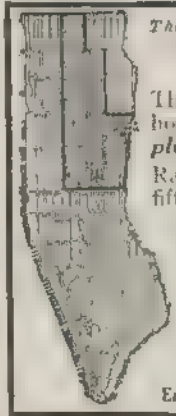

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DR. ROYAL S. COPELAND, Dean

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Two Years' Engineering Course

With Diploma and Degrees

Civil **Mechanical** **Electrical** **Chemical**

Compact courses of essentials. Rich in mathematics, science and mechanical drawing; also shop and field work. Planned for those short in time and money, but strong in purpose. Courses distinguished alike for what is embraced and what is omitted. Especially adapted for

Young Men of Common School Education
Young Engineers with Practical Experience, but no degree

Great saving of time and money for High School students preparing for Universities and special or technical work. No entrance examination. Enter any time. Modern Shops, Laboratories, Library, Apparatus and Machinery. ***Extremely low expenses.*** $165 pays tuition, board and furnished room and library, all for 48 weeks.

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STERLING

THE basic principle upon which all Gorham Silverware is designed is UTILITY.

The balance and shape, the size and weight of every Gorham piece from dainty spoon to massive bowl, are always practical as well as pleasing.

Of the characteristics most desirable in silverware not all are obvious when the purchase is made but in buying Gorham Silverware you invariably secure the utmost in beauty, quality, art, durability and utility, and can easily distinguish it from common ware by this, the Gorham trade-mark.
For sale everywhere by leading jewelers.

STERLING

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If what you want is not advertised on these pages, see page 6 of this issue

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of WHEAT
A Dainty Breakfast
A Delicious Dessert

The Gulf Coast Military Academy

A First Class Preparatory School

Located beside the sea. Most healthful climate, thorough instruction. High moral tone. Reasonable cost. Excellent equipment. Limited. *Send us the boy, we will return you the man.*

For catalog address, **The Secretary, *Gulfport, Miss.***

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Known for Character Building—excels in
Strength of faculty
High standards
Quality of boys
Care and personal attention

Complete equipment—four modern buildings—with gymnasium and ample athletic field. Morgan Park has a notable record in preparing boys cleanly and thoroughly for College, Technical School and Business. Home life with military features for development and care of boys. Members of the faculty live and eat with boys. Delightful, healthy location 14 miles from Chicago. Lower school for small boys. Write for free illustrated catalogue and interesting booklet, "Results with boys."

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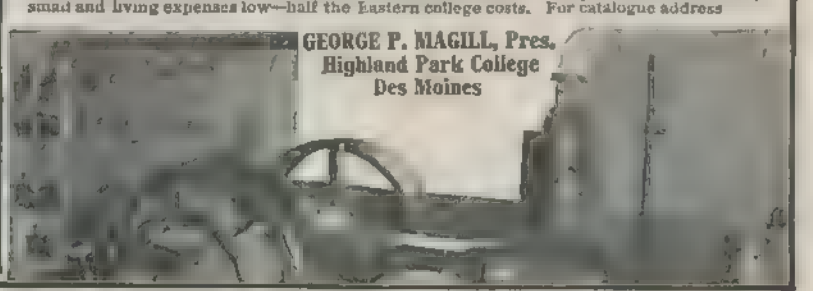

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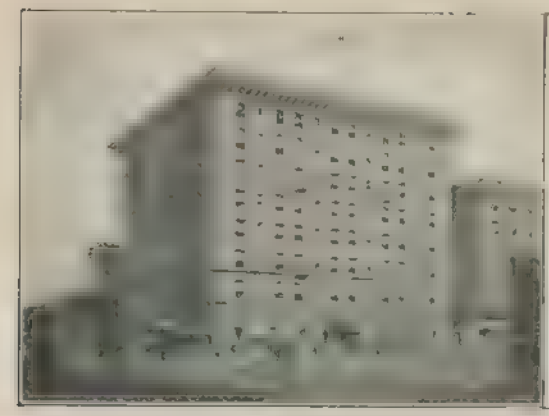

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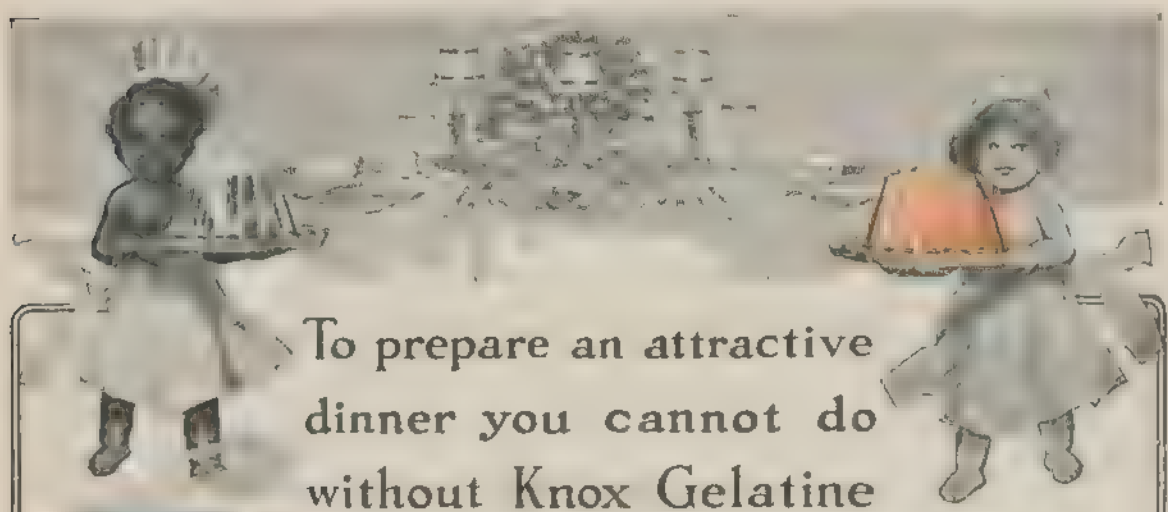

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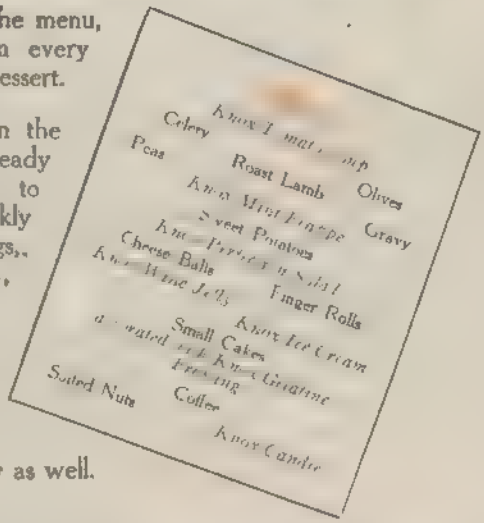

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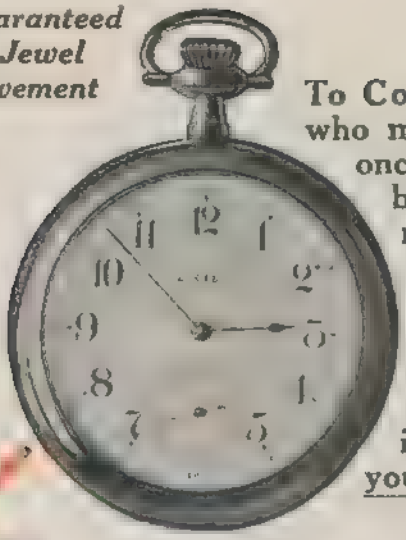

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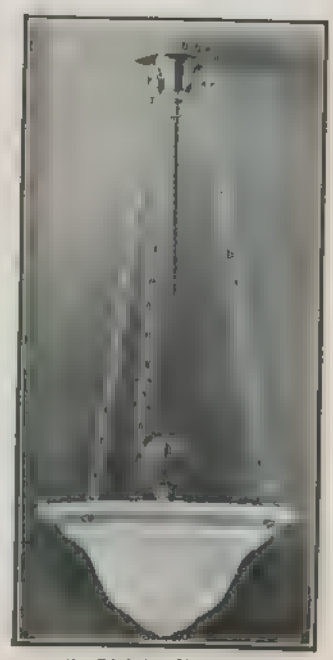

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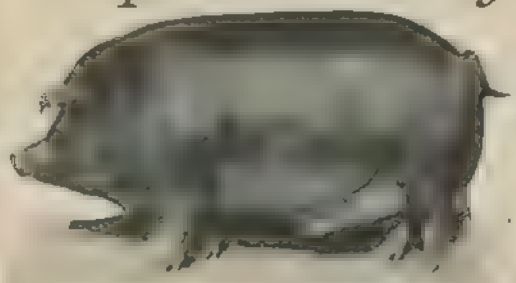

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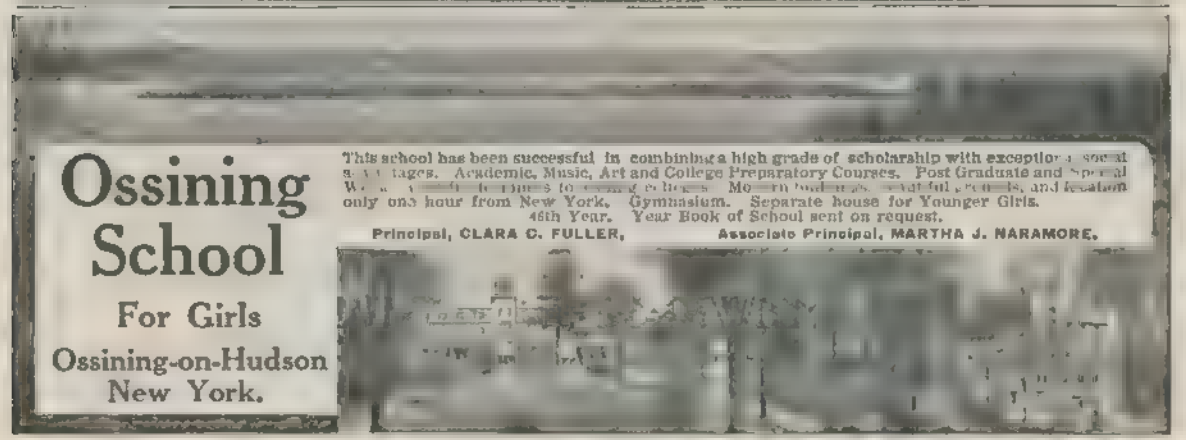

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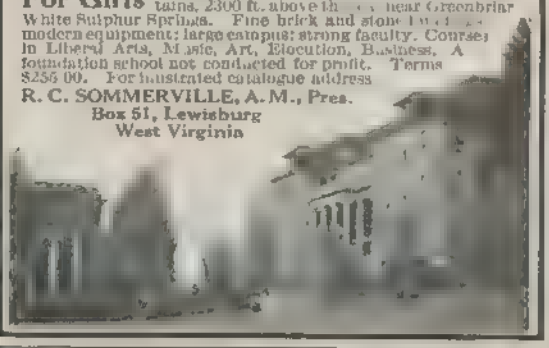

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CREAM SEPARATORS

IMPROVED DE LAVAL CENTRIFUGAL

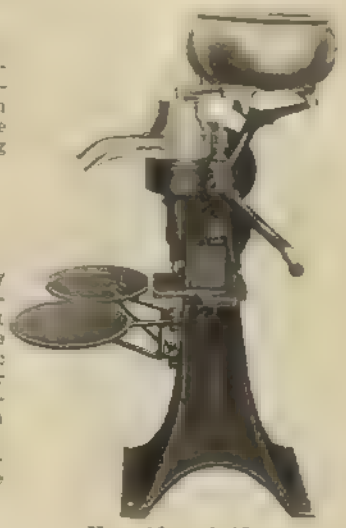
The De Laval Centrifugal Cream Separator constitutes the best known means, in the light of the world's science and experience, for separating cream from milk most completely, most quickly, most easily and most cheaply—and obtaining both the cream and skim-milk in the best possible condition

Nos. 4 and 5

Briefly stated the process of centrifugal cream separation consists in passing the milk through a mechanically operated and rapidly revolved steel bowl the inflow and discharge being continuous and the separation practically instantaneous with all advantages and none of the disadvantages of gravity setting or other skimming of milk

IMPORTANT FEATURES OF AN IMPROVED DE LAVAL CREAM SEPARATOR

Seamless Anti-Splash Sanitary Supply Can. Sanitary Faucet. Extra Heavy Tinware. Reversible Float. Improved "Alpha De Laval" Separating Discs. Heavy Part of Bowl below center of Gravity. Simple One Piece Spring Spindle Bearing with Dust Cover. Automatic Spray Oiling of all Gears and Bearings. Simple Lower Bearing and Frictionless Steel Carrying Points. Overflow for Used Oil. Adjustable Pail Shelves. Drain Cock for Drip Shelf. Simple Cream Screw Adjustment. Sight Feed Lubricator. Center Balanced Bowl. Split-Wing Tubular or Feeding Shaft. One Piece Detachable Spindle



Nos. 10 and 12

For Hand Power

Nos.	4	5	10	12
Height	3 ft. 6⅞ in.	3 ft. 6⅝ in.	3 ft. 9¾ in.	3 ft. 9⅞ in.
Size of Base, Inches	16¼x10½	16¼x10½	15¼x10½	16¼x10½
Actual Separating Cap'y Per Hour	135 lbs. or 70 qts	200 lbs. or 100 qts	335 lbs. or 170 qts	450 lbs. or 225 qts
Weight Each, Boxed Lbs.	158	167	174	174
Each	$80.00	100.00	130.00	150.00

Nos. 15 and 17

High Bearing Case Protecting Gears from Milk and Water. Helical Tooth Spur Pinion and Worm Wheel Gears Bronze Reversible Worm Wheel. Frame Joining Screw. Open Sanitary Base Oil Distributing Grooves

There is always an inch depth of oil under the worm wheel, the surface of which the worm wheel touches and in its rapid revolution gathers up and converts into a mist-like spray that fills the interior of the frame, and constantly lubricates all gears and finds its way through the oil grooves to all shafts and bearings

A book giving full instructions and showing extra parts, etc., is furnished with each Separator.

No 22

For Hand Power

Nos.	15	17	*22
Height	4 ft. ⅛ in.	4 ft. ⅛ in.	3 ft. 4⅛ in.
Size of Base, Inches	18¼x13½	18¼x13½	18½x13½
Actual Separating Capacity Per Hour.	675 lbs. or 340 qts.	900 lbs. or 450 qts.	1350 lbs. or 675 qts
Weight Each, Boxed, Lbs.	244	246	255
Each	$180.00	220.00	300 00

*A Special 25 Gallon Feed Tank is Furnished with No. 22 Separator

Note—For Power Drive Attachment for Above Separators, See Following Page

CREAM SEPARATORS

IMPROVED DE LAVAL CENTRIFUGAL

No. 19

No. 20

No. 25

For Steam Power

Nos.	19	20	*25
Actual Separating Capacity Per Hour	675 lbs or 443 qts	900 lbs. or 450 qts.	1350 lbs. or 675 qts
Weight Each, Boxed, Lbs.	220	222	215
Each	$200 00	250.00	330.00

*A Special 25 Gallon Feed Tank is Furnished with No. 25 Separator

Note—Aside from Driving Mechanism No. 19 is Identical with No. 17, No. 20 is Identical with No. 17, and No. 25 is Identical with No. 22, Described and Illustrated on Preceding Page

Cut showing the Universal Power Drive Attached to Frame of a De Laval Hand Power Separator.

UNIVERSAL POWER DRIVE

Enabling the Practical Use of Any Kind of Power in Hand Cream Separator Operation

	Each
Universal Power Drive—For Use with Nos. 4, 5, 10, 12, 15, 17 and 22 De Laval Cream Separators Described on Preceding Page, Weight Each Boxed 75 Lbs.	$24.00

The Universal Drive may be most easily explained by reference to the accompanying illustration. The power is transmitted by belt to the tight and loose pulley, provided with a belt shifter; thence from the short countershaft, which is a part of the drive set, by an endless belt to the lower or worm wheel shaft of the separator. The particularly novel and important feature is the coiled spring belt tightener over which the belt runs and which automatically absorbs all shocks resulting from gas engine explosions and the irregularities of speed

The crank is left on the machine, so that it can be run interchangeably by hand or power as may be desired at any time.

*Note—Not Carried in Stock, Shipped Direct from Factory

ELECTRIC MOTORS

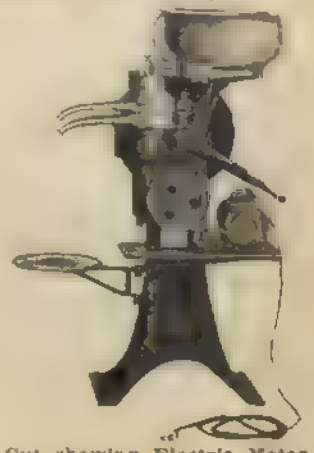
Complete with Equipment, for De Laval Separators

***Direct or Alternating Current**

	Each
No. 10—For Nos. 4, 5, 10 and 12 Separators, Weight Each Boxed 65 Lbs.	$.....
No. 11—For Nos. 15 and 17 Separators, Weight Each Boxed 75 Lbs.	
No. 12—For No. 22 Separator, Weight Each Boxed 80 Lbs.	

These Motors constitute an excellent method of power driving wherever electric power is available.

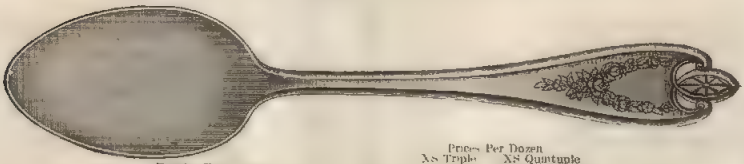
*Note—When ordering, be careful to state nature and details of Electric Current on which motor will operate. If Direct Current, give Voltage. If Alternating Current, give Voltage, Phase and Cycles or Alternations.



Cut showing Electric Motor and Equipment attached to Frame of a De Laval Hand Power Separator.

Old Colony Pattern

Finished in French Gray.
The Latest, Most Exquisite Pattern in Silver Plated Ware.

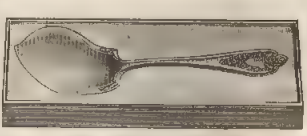


		Prices Per Dozen		
		XS Triple	XS Quintuple	
7223	Tea Spoons	$ 6.50	7224	$ 8.85
7225	Dessert Spoons	11.60	7226	15.00
7227	Table Spoons	13.00	7228	17.70
7229	Dessert Forks	11.60	7230	15.00
7231	Medium Forks	13.00	7232	17.70

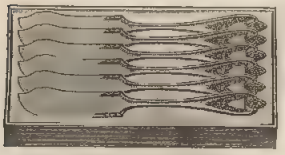
See Page 379 for Old Colony Knives and Forks.

7233 Old Colony, Hollow Handle Cheese Server, **$1.40** Each

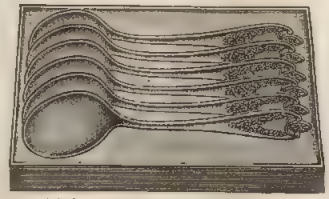
7235 Old Colony, Straight Handle Baby Spoon in Lined Box, **$0.85** Each



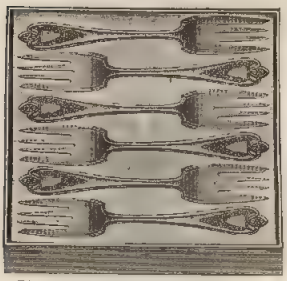
7234 Old Colony, Jelly Knife **$1.40** Each



7236 Old Colony, Six Butter Spreaders, **$6.00** Set



7237 Old Colony, Six Soup Spoons, **$6.50** Set



7238 Old Colony, Six Individual Salad Forks **$6.00** Set

7239 Old Colony Sugar Shell, in Lined Box, **$1.25** Each

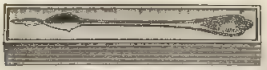
7240 Old Colony, Butter Knife, Sugar Shell and Cream Ladle, **$4.55** Set

Through All These Pages Note the Thousands of Illustrations and Remember We Carry a Stock of Everything

"THE HOUSE OF QUALITY"

1847 ROGERS BROS. XS TRIPLE

Old Colony Pattern

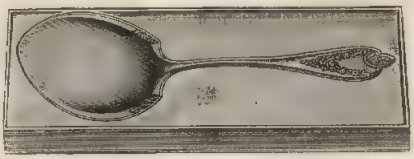


7241 Old Colony Butter Pick, in Lined Box, **$1.20** Each.

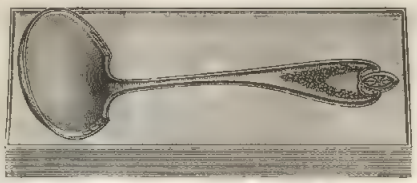
7242 Old Colony Butter Knife and Sugar Shell, in Lined Box, **$2.50** per Set

7243 Old Colony Pickle Fork, Long, in Lined Box, **$1.50** Each

7244 Old Colony Cod Meat Fork, in Lined Box, **$1.75** Each



7245 Old Colony Berry Spoon, in Lined Box, **$2.75** Each



7246	Old Colony Cream Ladle,		**$1.60** Each
7247	" "	Gravy "	**2.15** "
7248	" "	Oyster "	**4.55** "
7249	" "	Medium "	**5.95** "

Put Up in Lined Boxes.

Old Colony
Hollow Handles,
7250 Medium Knives, **$23.00** Doz.
7251 Dessert Knives, **$21.60** Doz.
7252 Medium Forks, **$23.00** Doz.
7253 Dessert Forks **$21.60** Doz.

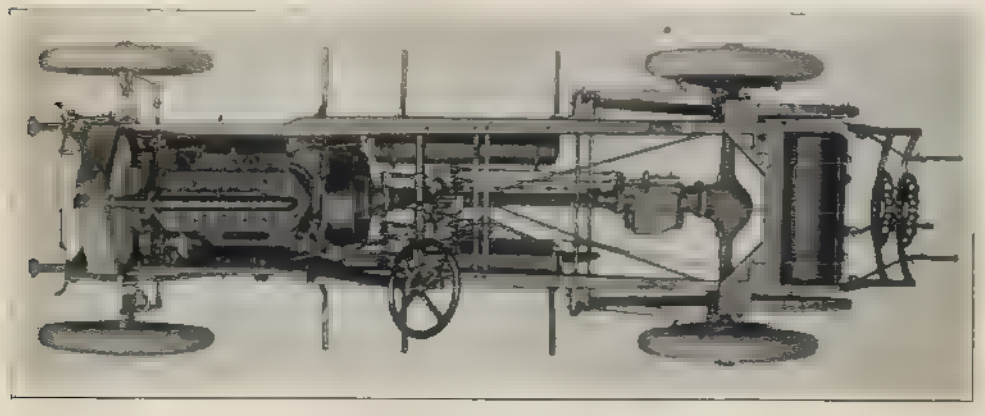
Old Colony
Flat Steel Handle,
10 Dwt., French Gray Finish.,
7254 Medium Knives, **$9.60** Doz.
7255 Dessert Knives, **$9.25** Doz.

SPECIFICATIONS of the new McFarlan Six for 1914 reveal seven bodies mounted on the one chassis. While the new car differs but little from last year's model, many improvements have been incorporated in its construction.

The most important changes are the changing of the steering from the right to the left side, and the change in the rear springs. The new rear springs are three-quarter elliptic type, and are underslung. The length of the lower half is 56 in. It is claimed for the underslung construction that it prevents side lash of the body. The rear spring hangers are both unique in design. The front one is part of the casting that is riveted on the frame to serve as a bearing for the brake cross shafts, and the top one is formed by an integral extension of a large gusset plate which extends clear across the rear of the frame. It is evident that springs as long as McFarlan springs are going to be a little too lively for use without something to tone them down. Accordingly a full set of Truffault Hartford shock absorbers is part of the equipment of each car.

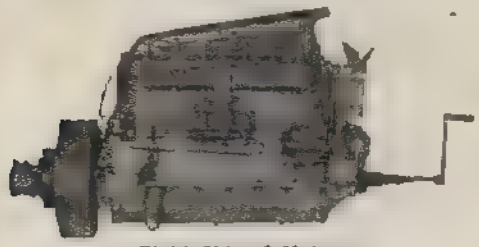
The brake layout has been made with a view to accessibility for adjustment, etc. Adjustments of the brake rods may be made while standing by the side of the car, and the rods themselves are very short, to prevent breaking. A convenient little door in the splash guard near the rear fender allows access to the brake rod adjustments and also to the front shackles of the rear spring. Inside the brake drums another change has been made in the design of the actuating toggles and links, with a view of securing even pressure all around the brake drum from the bands.

Another improvement is found in the new air pump for the starting system and the electric lighting generator. The pump formerly used was to be lubricated by the user. However, this detail was often overlooked and the pump was working under great difficulties. The new pump is oiled automatically from the motor, using the engine oil for that purpose. A sight feed is also provided so that the user can be certain that



Top View of Chassis.
Motor is six cylinder, cast en bloc. Transmission is on rear axle. Gasoline tank is at rear and supplies carburetor by pressure system.

the air pump is being lubricated. Metal pistons with rings and a drop-forged crankshaft are used in the air pump. The electric generator sets just ahead of the air pump, and in line with it. On the older cars the generator was smaller and to make the required output had to be geared down. The present generator is a big, husky instrument that runs at crankshaft speed and is driven direct from the water pump shaft.



Right Side of Motor.
Showing Mea magneto, the very short intake manifold and the piping for the air starter.

The mechanical governor of the old generator has been done away with, and now the required resistance is taken care of by a magnetic governor. The air pump does not run all the time, so there is a ball clutch on the shaft between the generator and air pump, by means of which the air pump is thrown into or out of gear. In case work should be necessary on either the pump or the generator, they are bolted to a single big bracket which comes out with both instruments on it, and either of them can then be taken off and put back on the bench.

Further improvements are the trunnion supports for the radiator; ball bearings in the steering knuckles to make steering easy; new Spicer universal joints; a new 10 x 40 in. air tank, which will have twice shaft and connecting rods. The transmis- the capacity of the tank formerly used, and a new seamless steel gasoline tank hung at the rear of the chassis.

Left Side of Motor.
Note new trunnion radiator support.

Seven styles of bodies, ranging from a two-passenger roadster to a seven-passenger Berline, are supplied on the one chassis. The windshield is built into the cowl and the front top straps attached to it. Collins quick adjustable curtains are used and a sloping hood. No side lights are used; the headlights are double filament. All the controls are located on the dash, within easy reach of the driver.

1914 Krit Improvements

Krit 1914 Unit Power Plant.
Disco electric lighting and starting system is employed. The generator and starting motor are enclosed in a single housing, the generator being above the motor. The unit is held by a cross brace on top and is bolted to the front of the flywheel extension.

Driving Compartment of 1914 Krit.
Clutch and brake pedals, accelerator and Disco starter switch on floor. Tail and head-light switches and dimmer, Stewart flush speedometer, Bosch magneto switch and gasoline tank filler on leather covered instrument board. Carburetor adjustment on left and electric horn button on right side of steering column. Usual spark and throttle on top of wheel.

MOUSE TRAPS

WOOD CHOKER

Stained Bright Red, Coppered Steel Springs

Nos.	4	5
No. of Holes	4	5
Weight Per Dozen, Lbs.	3	4
Per Dozen	$1 20	1 50

One Dozen in a Package

METALLIC CHOKER

Per Dozen

Metallic Choker—1¾x4¾ in., 7 Holes, Extra Heavy Tin, Well Finished, Best Coppered Steel Spring Wire.....$1.50
Weight Per Dozen 2¼ Pounds
One Dozen in a Paper Roll

UP-TO-DATE

Per Dozen

Up-to-Date—2⅜x1⅛x1⅝ in., Blue Lacquered Sheet Steel, Coppered Wire Springs.....$0 80
One Dozen in a Carton

MASCOTTE

Per Dozen

Mascotte—5⅛x3¾x2⅝ in., Wood Stained Bright Red Rim, Blue Lacquered Tin Parts.....$1.90
Weight Per Dozen 5 Pounds

One Dozen in a Package

OUT-O'-SIGHT

Per Dozen

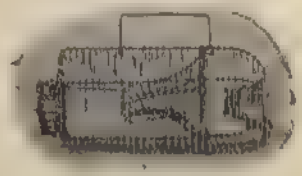
Out-O'-Sight—3⅞x2x¼ in., Self Baited, Best Hardwood Base, Coppered Wire Spring...$0 80
Only trap made in which the spring and striker are of one continuous piece of spring wire
Weight Per Dozen 1¼ Pounds
One Dozen in a Display Box

H. & P.

Per Dozen

H. & P.—3¾x2 in., Hardwood Base, Coppered Tempered Steel Spring.....$0.40
Weight Per Dozen 1¼ Pounds
One Dozen in a Box

FRENCH



Per Dozen

No. 3—5x4½x4 in., Self-Setting Coppered Steel Wire.....$4.40
Weight Per Dozen 3 Pounds
One-half Dozen in a Bundle

FLY TRAPS

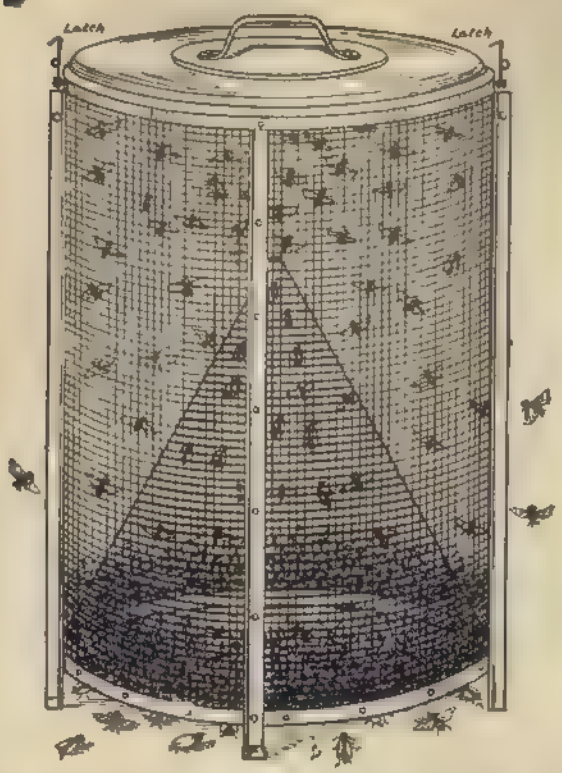
Per Dozen

Perfect—Height 20 in., Diameter at Bottom 11½ in., Diameter at Top 9 in., Galvanized Iron Ribs, Heavy Galvanized Wire Screen, Absolutely Rust Proof and Practically Indestructible. Weight Per Dozen 60 Lbs.....$30.00

Positively the best Fly Trap on the Market. A good looker and a quick seller.

One-half Dozen in a Box, Nested

FLY TRAPS



Per Dozen

Giant—Height 20 in., Diameter 13 in., Black Wire Cloth Galvanized Iron Rims and Top, the Top with Handle is Fastened Securely by Two Latches, Weight Each 20 Lbs. $36.00

Set the trap where flies are numerous or where they breed, near or in a stable, manure pile, trash heap or garbage can. Place a tin cup or saucer with bait under the tray.

One-twelfth Dozen in a Case

Per Dozen

Paragon—9½ in. High, Diameter at Bottom 6¼ in., Green Wire Cloth, Tin Top and Base, Weight Per Dozen 9 Lbs. $2 80

One Dozen in a Box

FLY KILLERS

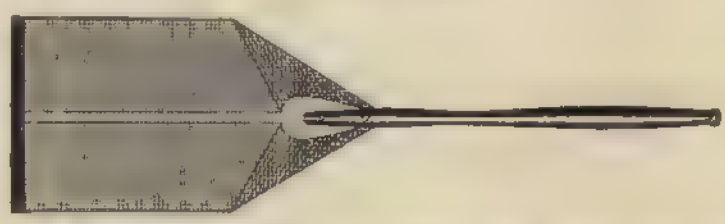
Per Dozen

Wonder—Seamless Metal, Perforated Top, Will Not Leak $2 00

The most wonderful exterminator of the pesky germ carrying house fly. Simple, neat and clean

One Dozen in a Carton

FLY KILLERS



Per Dozen

King—Black Enameled Wire Cloth 5 in. Wide, Especially Tempered and Woven Black Enameled Wood Handle, Length Over All 18 in., Weight Per Dozen 2 Lbs. $1.50

The wire cloth is securely fastened to the handle, the weave is secured at the sides with a three wire selvage, the end is bound with leather and will not unravel

One Dozen in a Carton, with Display Stand

Per Dozen

Osborn—Tempered Spring Steel Wires 5½ in. Long, Securely Fastened to a 9 in. Black Enameled Birchwood Handle, Metal Ferrule, Won't Break, Kink or Tangle, Weight Per Dozen 2 Lbs. $2 00

One Dozen in a Box with Display Stand

Per Dozen

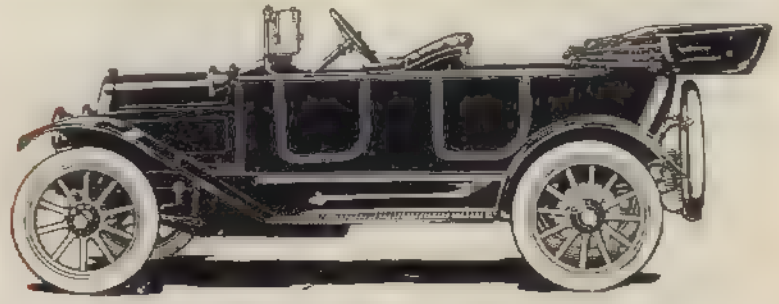
Best—4¼x4¼ in. Black Enameled Wire Cloth Head, Reinforced Edges, 9 in. Twisted Coppered Wire Handle, Weight Per Dozen 1 Lb. $0 80

One Dozen in a Box

Maxwell Motor Cars

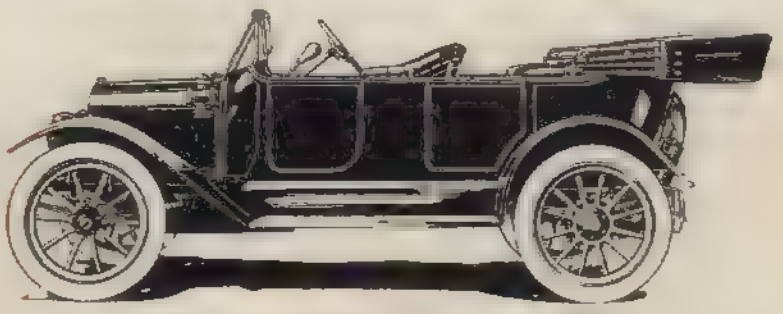
1914 MAXWELL "50-6"—$1975

The sweetest running thing on wheels. Six-cylinder motor, bloc-cast, 50 h. p.; 130" wheelbase; electric starter and lights; Bruce Ott body; 5-7 passengers; disappearing seats; 30" x 4½" tires all 'round. Luxuriously finished; long, easy-riding springs and full equipment, including ventilating windshield, Klaxet warning signal, top and Jiffy curtains—even an electric cigar lighter. Left or right-side drive optional.



1914 MAXWELL "35-4"—$1085-$1225

Powerful, silent, sweet-running; bloc-cast, four-cylinder motor; 111" wheelbase; 33" x 4" tires all 'round; left-hand drive, center control, electric starter and lights, at $1225; three-quarter elliptic springs; Bruce Ott body; ventilating windshield and full equipment, including Jiffy curtains.



1914 MAXWELL "25-4"—$750

The year's sensation. Four-cylinder, bloc-cast; 25 h. p. motor; magneto; weight, 1600 pounds; 103" wheelbase, 30" x 3 ½" tires all round; 3-speed selective transmission; full five-passenger body, designed by Bruce Ott; complete equipment, including tire holders, windshield, top, Jiffy curtains.

Ask
Dun's, Bradstreet's Or Your Own Banker

NOW, MORE THAN EVER BEFORE, it behooves the dealer and the buyer to look carefully to the financial stability of the automobile manufacturer whose car he contemplates owning.

THERE HAVE BEEN SOME occurrences of late that should serve as a warning in this regard. On the other hand, there hasn't been a failure that wasn't scheduled. They were foreordained from the first—inevitable.

SOME WERE OVERDUE, in fact. Thanks to the splendid demand for cars, which we and other responsible concerns were unable to supply in full, some of them were accorded a longer lease of life than their product or experience or financial backing entitled them to.

THERE WAS NO EXCUSE, however, for any buyer being in ignorance of what impended. That was easily foreseen.

LET US SUGGEST that now, you who are in the market for a car, look into this matter as it deserves. You owe it to yourself—and us.

ASK BRADSTREET'S OR DUN'S. Or, if you are not a subscriber, ask your Banker to investigate and inform you. He will do it gladly.

ASK HIM WHICH ARE the five financially strongest automobile manufacturers.

YOU WILL FIND that the Maxwell Motor Company is one of the five—and it will not be fifth in point of stability, either.

HAVE HIM ANALYZE the latest financial statements of these five strongest and tell you which have the greatest amount of assets in proportion to liabilities—including bonded indebtedness, etc., of course. We think he'll tell you the Maxwell Motor Company is one of the leaders.

PERHAPS YOU DIDN'T KNOW—there's been so much confusion in this matter—that the Maxwell Motor Company has no connection whatsoever with the late Maxwell-Briscoe Company except that this concern purchased, through the U. S. Courts, all the assets, not only of that, but of several other concerns.

WE STARTED WITH A CLEAN SLATE—with plants worth many millions, with ample cash on hand to take care of our manufacturing operations, etc.

WE HAVE NO BONDED INDEBTEDNESS—no outstanding notes or debts of any kind except current open accounts not yet due.

AND TODAY WE ARE nine months old with orders on our books for more than thirty thousand cars.

HAS THAT RECORD EVER been surpassed in this industry? We submit the account of our stewardship—ask Bradstreet's, Dun's or your Banker for further particulars regarding the operations and stability of this Company.

THEN YOU'LL FEEL SECURE on that point and, when you compare the cars as carefully, there will be only one answer, "Yours will be a Maxwell."

Maxwell Motor Company (Inc.)
Detroit, Michigan

Dealers and Service Everywhere

$2400 $2400

Nothing Extra to Pay

MOLINE KNIGHT

Completely Equipped

More Power
More Flexibility

More Economy
More Silence

It's here—a Moline-Knight—$2400

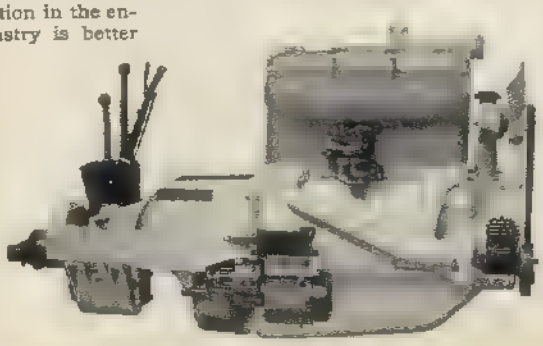
For the man who THINKS before he SPENDS

Now comes the Moline-Knight the car that makes possible a Knight motored car at a price every motorist can afford—$2400, fully equipped—The Moline-Knight means instantaneous getaway less consumption of fuel—more power—no carbon troubles no valves to clog or grind fewer parts, simpler parts, less to get out of order.

The old poppet valve has now outlived its usefulness The poppet valve served its purpose well in its day—but it has its limitations as any competent engineer or mechanical expert will tell you. Manufacturers of motors have spent fortunes and years of labor in an effort to get rid of the poppet valve. The Knight motor solves the problem. Europe took the lead in getting rid of the poppet valve—and the result is such celebrated cars as the Mercedes, the Daimler, the Panhard and the Minerva using the Knight motor.

Moline-Knight backed by 23 years of successful manufacturing Charles Y. Knight—the inventor and designer of the Knight sleeve valve type of motor granted a license to the Moline Automobile Company because along with their nine years successful experience as motor car producers they had an additional fourteen years as builders of gasoline engines.

No other organization in the entire motor car industry is better equipped with brains, experience, skilled workmen, modern machinery, systematized plant or financial responsibility to build the *supreme* Knight than the Moline Automobile Company.



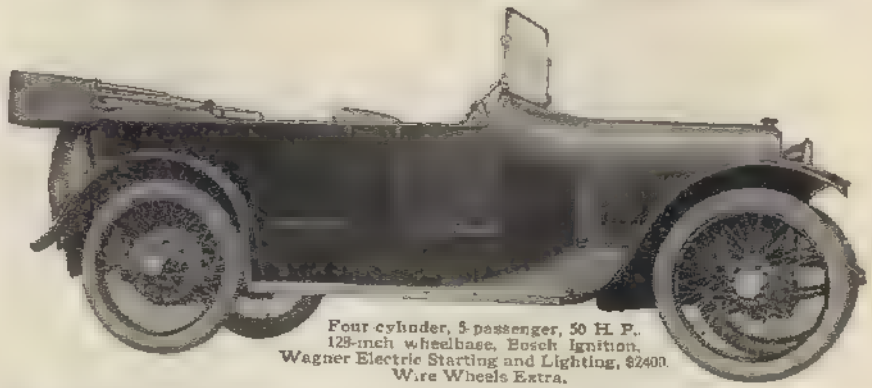
Poppet valve disadvantages To get power and speed in the poppet valve engine, high compression, large valves, strong springs and precipitous cams are necessary. These large valves and their seats will often warp. They do not cool properly and the strong springs necessary to seat them at high speed soon weaken, or actually pound the head of the valve out of shape.

The reason why the Moline-Knight is supreme over the poppet valve motor The superiority of the Moline-Knight motor over any poppet valve lies in the fact that the sleeve valve system is not affected by high pressures. The explosion does not affect or shock it at any point because the sleeve valve is balanced against lateral pressure.

The sleeve valve motor combines the silence, economy and low compression of the small poppet valve motor with the high compression, large valves, powerful springs and long cams of the racing poppet valve motor consequently, the Moline-Knight motor—with none of the poppet valve disadvantages—has all the advantages of both types of poppet valve motors plus all the sleeve valve advantages.

Moline-Knight

A big, roomy five-passenger car with an electric starter that starts every time



Four-cylinder, 5-passenger, 50 H. P., 128-inch wheelbase, Bosch Ignition, Wagner Electric Starting and Lighting, $2400. Wire Wheels Extra.

The 'Four' that makes the 'Six' unnecessary

Perfect streamline body The streamline body of the Moline-Knight is perfect, graceful and smooth — the only genuine streamline body made in America. It is an extra large five-passenger body—with ample room for two extra seats for which it is framed. It readily meets the requirements of either a five or seven-passenger car.

As flexible and as powerful as any 'six' The Moline-Knight is equipped with the Wagner Electric Starting and Lighting System. The motor is a powerful four-cylinder 50 H. P. engine that is quieter, smoother running, more flexible and develops far more power than any six-cylinder poppet valve motor of near the same piston displacement, we have ever known.

Enclosed, dust proof The unit power plant is entirely enclosed and protected against dust and dirt. It is carried on three point suspension. All operating and mechanical parts are quickly accessible—simply raise the hood, remove the floor board and you have everything back to the universal joint in plain view.

Big demand in advance To the dealer the Moline-Knight means dollars and prosperity—because he can now sell his trade the car they have long wanted. To the user it means a Knight motor for *less money*—and the four things he has always wanted—more power, more flexibility, more economy, more silence.

What you get Full floating rear axle, 128 inch wheelbase, selective transmission, half elliptic rear springs of unusual length, Truffault-Hartford shock absorbers, Bosch ignition, Schebler carburetor, Moline-Wagner electric starting and lighting, adjustable foot pedals, center control, left side drive, lubrication by force through hollow shaft, 36x4½ artillery or wire wheels, Firestone demountable rims, 18 gallon gasoline tank in rear, finished in blue-black, other colors optional with three weeks notice. One man Mohair top, cover and side curtains, automatic wind shield, electric horn, power tire pump, Warner 60-mile speedometer, 36x4½ Goodrich Unit Molded Tires, gasoline and oil gauge and speedometer, foot rail, robe rail, tire irons, complete set of tools, jack, tire repair kit, eight-day clock.

If you believe you are entitled from your record to a contract for the Moline Knight act at once. Right now there is a demand in your territory for the Moline Knight—wire use the phone or visit us at our factories. Get our "Advance Information Folder" immediately.

If you are a user and wish to know all about the wonderful new Moline-Knight—write us at once for our "Advance Information Folder."

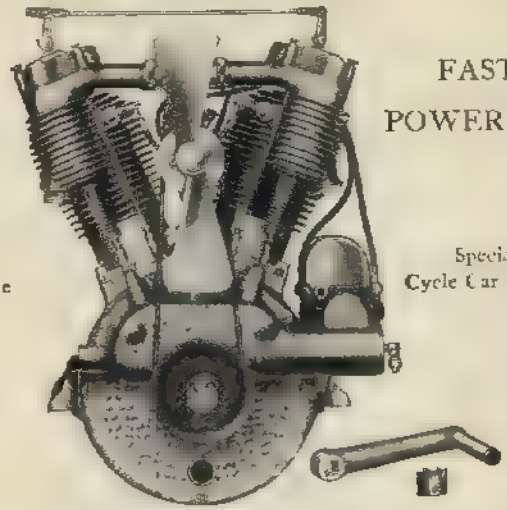
Moline Automobile Company, 100 Nelson St., East Moline, Ill.

DE LUXE MOTORS

FOR CYCLE CARS

CLEAN
SILENT

FAST
POWERFUL



One Size
for Chain or Shaft Drive

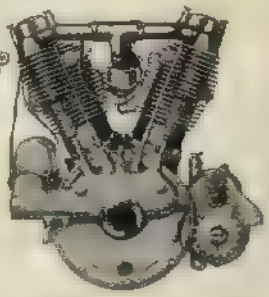
Special
Cycle Car Motor

9 H. P. Model "V"
Twin Motor

Also

DE LUXE CYCLE CAR PLANETARY TRANSMISSIONS, EITHER DIRECT DRIVE OR COUNTERSHAFT STYLE

FOR MOTORCYCLES & TRI CARS



PLAIN MOTORS and
TWO-SPEED MOTORS

Four Sizes
For Chain or Belt Drive

4 H. P. Single Motor 5 H. P. Single Motor
7 H. P. Twin Motor 9 H. P. Twin Motor

A LINE COMPLETE

Send for Descriptive Catalog and Prices.

De Luxe Motors, The Heart of the Vehicle.

THE F.W. SPACKE
INDIANAPOLIS

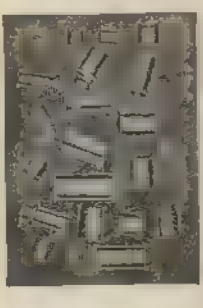
SUPERIOR AUTOMOBILE PARTS

ACCURATELY MADE

PROMPT DELIVERIES

STANDARD
PISTON RINGS
IN ALL REGULAR SIZES
IN QUANTITIES
FOR THE
Manufacturer
AND
IN SMALL LOTS
FOR
REPAIRS

DIE CASTINGS



Special Die Cast Bearing Bushings made in quantities from any of the standard bearing metals according to your blueprints and specifications.

AIR COMPRESSORS

A full line of Air Compressors and accessories for Auto Garage use. Single and three Cylinder styles; belt and motor driven. Catalog on request.

GEAR CUTTING TO SPECIFICATIONS

MACHINE CO
INDIANA, U·S·A·

Sterling Silver and Silveroin Match Boxes

Illustrations Are Exact Size -Warranted to Give Satisfaction.

5910
Silveroin, Gray Finish, Raised Design, **$1.20** Each

5911
Silveroin, for Wax Matches, Gray Finish, Raised Design, **$1.20** Each

5912
Silveroin, Brush Finish, Embossed, **$1.25** Each

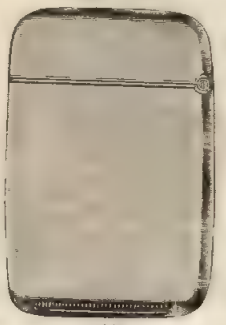
5913
Sterling Silver, Gray Finish, **$2.25** Each

5914
Sterling Silver, Gray Finish, **$3.00** Each

5915
Sterling Silver, Gray Finish, Embossed Design, **$3.00** Each

5916
Sterling Silver, Gray Finish, Embossed Design, **$3.50** Each

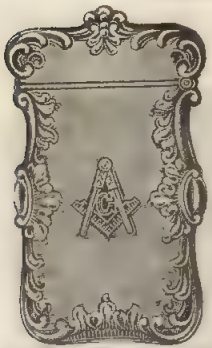
5917
Sterling Silver, Satin Finish, **$4.50** Each



5918
Sterling Silver, Plain Satin Finish **$5.00** Each

Sterling Silver Match Boxes

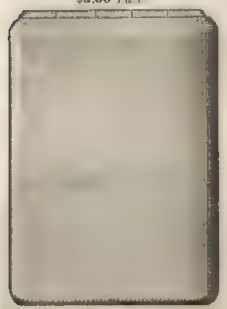
Illustrations are Exact Size –Warranted to Give Satisfaction.



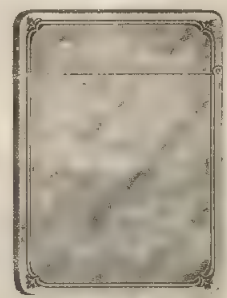
5919 Sterling Silver, Gray Finish, Raised Emblem
$5.00 Each

5920 Sterling Silver, Satin Finish, Raised Emblem,
$6.00 Each

5921 Sterling Silver, Bright Finish, Hand Engraved,
$8.00 Each



5922 Sterling Silver, For Wax Matches, Plain Polished,
$6.00 Each



5923 Sterling Silver, Gray Finish, Etched Design, Both Sides Alike,
$6.00 Each

5924 Sterling Silver, For Wax Matches, Bright Finish, Fine Hand Engraving, Plain Back,
$9.00 Each

5925 Silverine, For Wax Matches, Gray Finish, Embossed Design,
$1.50 Each

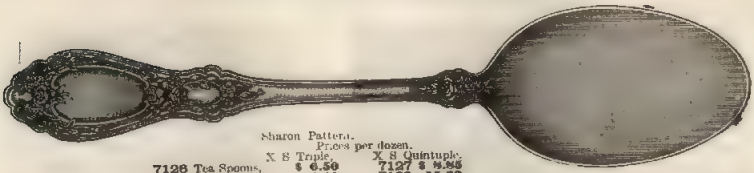
5926 B P O Elks Membership Card Case, Silveroid, Gray Finish, Raised Head and Ornaments,
$1.80 Each

Be Sure and Put the Page Number, the Article Number and the Price on your order. It Will Prevent Errors.

1847 ROGERS BROS. X S TRIPLE

The "Sharon" Pattern

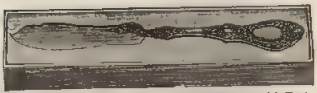
French Gray Handle, Polished Bowl and Shield.



Sharon Pattern.
Prices per dozen.

	X S Triple.	X S Quintuple.
7126 Tea Spoons,	$ 6.50	7127 $ 8.85
7128 Dessert Spoons,	11.60	7129 15.00
7130 Table Spoons,	13.00	7131 17.70
7132 Dessert Forks,	11.60	7133 15.00
7134 Medium Forks,	13.00	7135 17.70

For Sharon Pattern Knives and Forks, See Page 382

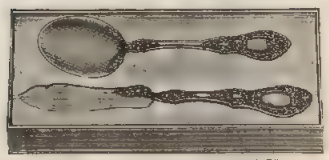


7136 Sharon Butter Knife, Twist Handle, **$1.40** Each

Med. Knives, Hollow Handle, **$23.00** per Doz.

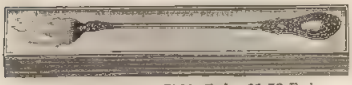
Med. Forks Hollow Handle, **$20.50** per Doz.

7137 Sharon Sugar Shell, **$1.25** Each



7138 Sharon Butter Knife and Sugar Shell, **$2.50** per Set

7139 Sharon Berry Spoon, **$2.75** Each



7140 Sharon, Long Pickle Fork, **$1.50** Each

7141 Sharon Cold Meat Fork, **$1.75** Each

7142	Sharon Cream Ladle,	$1.60	Each
7143	Sharon Gravy Ladle,	2.15	Each
7144	Sharon Oyster Ladle,	4.35	Each
7145	Sharon Medium Ladle,	5.95	Each

7146 Sharon Child's Set, three pieces, **$2.95** per Set

Our Strong Points Are Highest Quality, Lowest Prices and Satisfactory Service.

"THE HOUSE OF QUALITY"

The Sharon Pattern

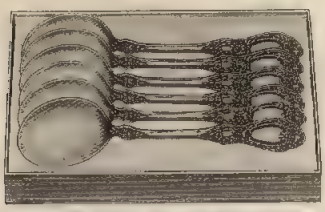
French Gray Handle, Polished Bowl and Shield.

7147 Sharon Knife and Fork Set, Six Medium Knives, Six Medium Forks
$11.50 per Set

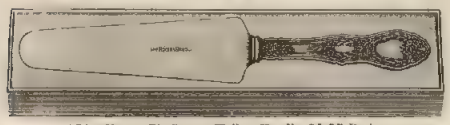
7148
Sharon Coffee Spoons, Six in Lined Box,
$3.25 per Set

7149 Sharon Bouillon Spoons, Six in Lined Box, **$6.00** per Set

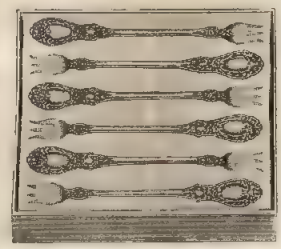
7150
Sharon Orange Spoons, Six in Lined Box
$4.05 per Set



7151 Sharon Soup Spoons, Six in Lined Box, **$6.50** per Set



7152 Sharon Pie Server, Hollow Handle, **$4.00** Each



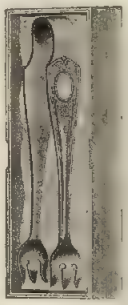
7153
Sharon Oyster Forks, Six in Lined Box,
$4.50 per Set

Community Silver

Louis XVI. Pattern.

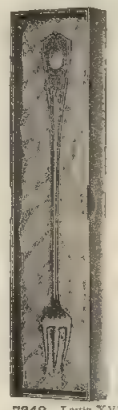
The Latest Community Silver Design Harmonizes Perfectly with the Period It Represents—the Later French Renaissance -White in Rich Simplicity It Rivals the Best Examples of Sterling Silver.

Louis XVI. Pattern,
7335 Teaspoons, per Dozen . . . **$7.30**
7336 Dessert Spoons, per Dozen . . . **$13.50**
7337 Table Spoons, per Dozen . . . **$14.65**
7338 Iced Tea Spoons, per Dozen . . . **$9.60**
7339 Coffee Spoons, per dozen . . . **$7.30**
For Louis XVI. Hollow Handle Knives and Forks, See Page 386



7340 Louis XVI. Sugar Tongs, **$1.95** Each

7341 Louis XVI. Berry Spoon, **$8.70** Each

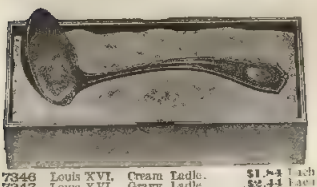


7342 Louis XVI Pickle Fork, **$1.40** Each

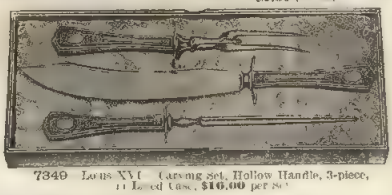
7343 Louis XVI Cold Meat Fork, **$1.75** Each

7344 Louis XVI. Individual Salad Forks, Set of 6, in Lined Box. **$7.10** per Set.

7345 Louis XVI Butter Knife and Sugar Shell, in Lined Box, **$2.80** per Set



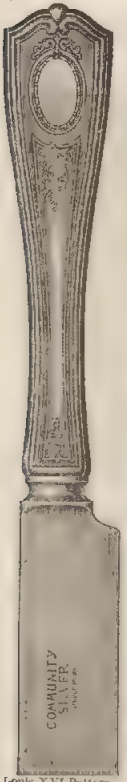
7346 Louis XVI. Cream Ladle. **$1.85** Each
7347 Louis XVI. Gravy Ladle . . . . **$2.44** Each
7348 Louis XVI. Soup Ladle . . . . **$6.60** Each



7349 Louis XVI Carving Set, Hollow Handle, 3-piece, in Lined Case, **$16.00** per Set

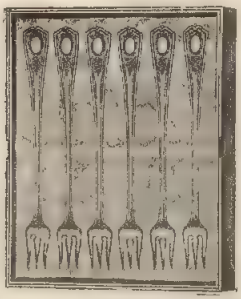
Community Silver

Louis XVI Pattern.

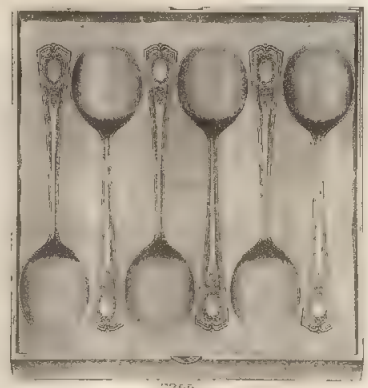


Louis XVI Pattern.
Hollow Handle.
Per doz

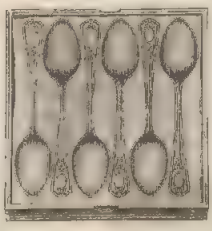
7350 Medium Knives . . $23.20
7351 Medium Forks . . $23.20
7352 Dessert Knives . . $22.35
7353 Dessert Forks . . . $22.35



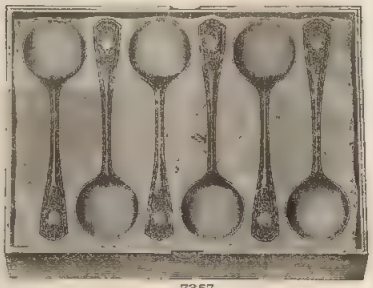
7354
Louis XVI Oyster Forks,
Set of 6 in Lined Box,
$4.05 per Set



7355
Louis XVI Soup Spoons
Set of 6 in Lined Box
$7.50 per Set

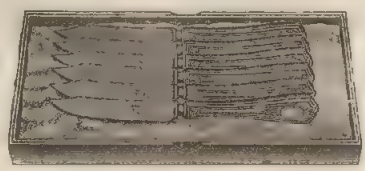


7356
Louis XVI Coffee Spoons,
Set of 6, in Lined Box,
$3.65 per Set



7357
Louis XVI Bouillon Spoons,
Set of 6, in Lined Box,
$6.25 per Set

7358
Louis XVI Orange Spoons,
Set of 6, in Lined Box,
$4.80 per Set



7359
Louis XVI Hollow Handle Fruit Knives,
Set of 6, in Lined Box,
$10.65 per Set

If You Are Uncertain About Any of Our Goods, Write Us. We Will Answer Promptly.

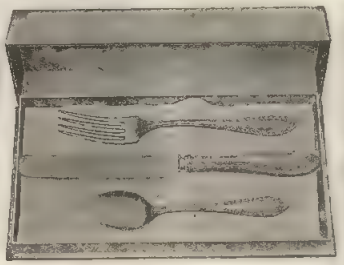
"THE HOUSE OF QUALITY"

Community Silver

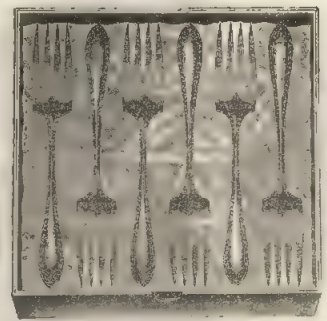
Sheraton Pattern.

Sheraton, our latest design in Community Silver, is a masterpiece of artistic designing. Simple but exquisitely beautiful in outline and ornamentation, it rivals Sterling Silver in distinction, and harmonizes perfectly with the richest of table settings.

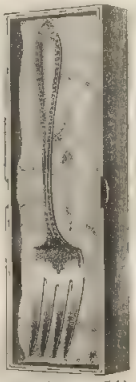
Sheraton Pattern.
7312 Tea Spoons, **$7.30** per Dozen
7313 Dessert Spoons, **$13.30** per Dozen
7314 Table Spoons, **$14.65** per Dozen
7315 Iced Tea Spoons, **$9.00** per Dozen
7316 Coffee Spoons, **$7.30** per Dozen



7310 Sheraton Three-Piece Child's Set, Hollow Handle Knife, **$4.25** per Set.

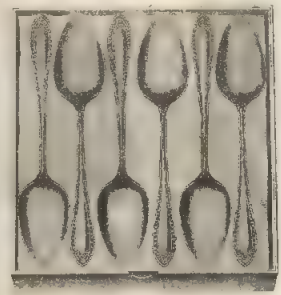


7311 Sheraton Individual Salad Forks, Set of Six in Lined Box, **$7.10** per Set.



7317 Sheraton Cold Meat Fork, **$1.75** Each.

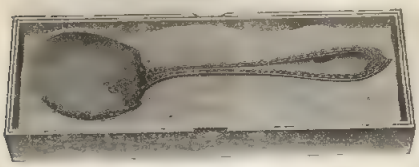
7318 Sheraton Butter Knife and Sugar Shell, Plain, in Lined Box, **$2.60** per Set



7319 Sheraton Orange Spoons, Set of Six in Lined Box, **$4.80** per Set.

7320 Sheraton Cream Ladle $1.84 Each
7321 Sheraton Gravy Ladle 2.44
7322 Sheraton Medium Size Ladle 6.60

For Sheraton Hollow Handle Knives and Forks see page 384.



7323 Sheraton Berry Spoon, **$2.70** Each

7324 Sheraton Hollow Handle Pie Server, **$3.30** Each.

Keep in Touch With Us. We are Constantly Making Special Propositions Which Means Money to You.

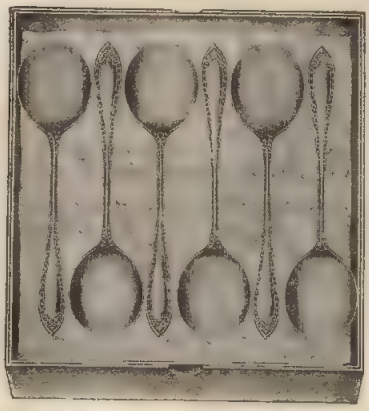
"THE HOUSE OF QUALITY"

Community Silver

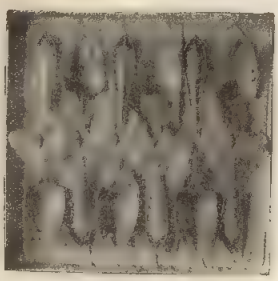
Sheraton Pattern

Sheraton Pattern
Hollow Handles

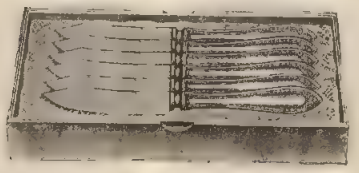
	Per Dozen
7325 Medium Knives	$23.20
7326 Medium Forks	23.20
7327 Dessert Knives	22.35
7328 Dessert Forks	22.35



7329 Sheraton Soup Spoons, Set of 6 in Lined Box **$7.30** per Set

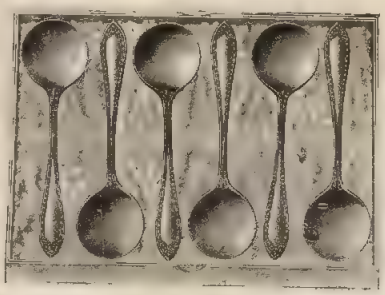


7330 Sheraton Ice Cream Forks, Set of 6, in Lined Box, **$5.40** per Set

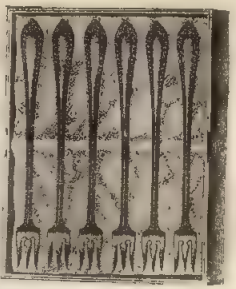


7331 Sheraton Large Knives, Hollow Handle, 6 in Lined Box **$10.65** per Set

7332 Sheraton Individual Butter Spreaders, Set of 6 in Lined Box **$5.90** per Set.



7333 Sheraton Bouillon Spoons, Set of 6 in Lined Box, **$6.25** per Set



7334 Sheraton Oyster Forks, Set of 6, in Lined Box, **$4.65** per Set.

Remember, Our Goods Always Look Very Much Better Than the Cuts. Cuts Can Only Give You an Idea.

Fine Sterling Silver Sewing Novelties

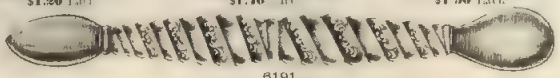
Warranted to Give Satisfaction.

6187
Thread Ball, Sterling Silver Handle, Gray Finish. Illustration One-Half Size.
$0.65 Each

6188
Thread Darning Ball, Sterling Silver Handle, Gray Finish. Illustration One-Half Size.
$1.20 Each

6189
Thread Darning Ball, Sterling Silver Handle, Bright Finish. Illustration One-Half Size.
$1.10 Each

6190
Thread Darning Ball, Sterling Silver Handle, Gold Lined. Illustration One-Half Size.
$1.50 Each.



6191
Sterling Silver Glove Darner and Mender, with Ebony Ends.
$1.00 Each.

6192
Sterling Silver Floss Winder
$0.80 Each

6193
Sterling Silver Floss Winder, Gray Finish.
$0.65 Each

Sewing Basket Necessities

6194
Wax Strawberry, Sterling Silver Trimmings.
$0.50 Each

6195
Emery Strawberry, Sterling Silver Trimmings.
$0.50 Each

6196
Emery Bag, Sterling Silver Handle.
$0.70 Each

6197
Strawberry Pin Cushion, Sterling Silver Trimmings.
$0.95 Each

We Will Not Illustrate or Quote Anything We Do Not Know to Be Reliable.
We Want No Dissatisfied Customers.

"THE HOUSE OF QUALITY"

Fine Sterling Silver Novelties

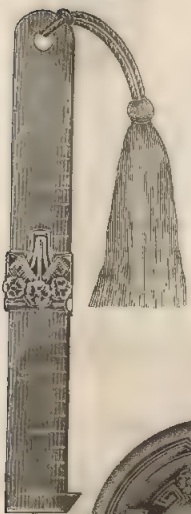
Warranted to Give Satisfaction.

6198
Tape Measure,
Sterling Silver,
$0.70 Each

6199
Tape Measure,
Sterling Silver
$0.70 Each

6200
Tape Measure,
Sterling Silver, Floral Etched,
Self Winding,
$2.50 Each

6201
Tape Measure,
Sterling Silver, Embossed Design,
Self Winding Steel Tape,
$4.00 Each.



6206
Height
Gauge
Sterling Silver,
Movable
Gauge,
Pink Silk
Tassel,
$3.00 Each

6202
Fine Velvet Pin Cushion in
Sterling Silver Case, Bright Finish,
$1.00 Each

6203
Thimble Case,
Gilt Finish,
$3.00 Each

6204
Magnifying Glass,
Bright Finish,
Embossed Handle,
$1.40 Each

6205
Thimble Case,
Pierced,
$2.00 Each

6207
Hand Bag Mirror, Sterling Silver, Butler Finish,
$3.00 Each.

If Anything You Buy of Us Is Not As Represented, Return It Immediately. We Will Thank You For Doing So.

"THE HOUSE OF QUALITY"

INGRAHAM CLOCKS

AUTOCRAT

"THE CLOCK WITH THE BELL INSIDE"

Fifty Five Hour Time.
Alarm rings alternately
every 15 seconds for 12 minutes
With Stem Shut off
Large bell inside case.

Height 7¼ inches.
Thin model case, finish
scratched brass or nickel
Convex glass
4¾ inch iveroid dial.

Ball Drops

Alarm Stops

New and unique features which give this alarm clock the appearance of

A HUGE WATCH

THIN MODEL CASE — ABSENCE OF VISIBLE BELL — ABSENCE OF PROJECTING FRONT LEGS
IMITATION PORCELAIN DIAL — TORIC CRYSTAL

MADE LIKE A WATCH — LOOKS LIKE A WATCH — RUNS LIKE A WATCH

Every clock is thoroughly tested before it leaves the factory and is warranted a first class timekeeper.
Packed 24 clocks in a box, each clock in a separate pasteboard box.
Name printed on paper dial (case lots) without additional charge.

LIST PRICE, EACH, CASE LOTS, - - - - - - $2.66
LIST PRICE, EACH, SMALL LOTS, - - - - - - 2.75

INGRAHAM CLOCKS

THIS CUT ACTUAL SIZE OF CLOCK.

INDIAN

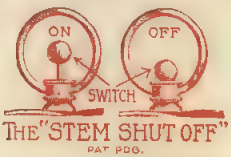
"The Clock With The Bell Inside"

STEM SHUT-OFF.

Diameter of case 4½ inches. Nickeled and highly polished. Bell enclosed within the case.
Alarm is released by raising ball on stem.
Alarm is stopped by pressing ball down.
(See Cut below.)

Every Clock is thoroughly tested before it leaves the factory and is warranted a first class timekeeper.
Packed 50 clocks in a box, each Clock in a separate pasteboard box.
Name printed on dial (case lots) without additional charge.

List Price, each, case lots, .	$1.04
List Price, each, small lots, .	1.06



THE "STEM SHUT OFF"
PAT PDG.

BALL DROPS - ALARM STOPS

FIAT.

VEDETTE.

TRIUMPH.

THESE CLOCKS SAME SIZE AS "INDIAN", SEE CUT ABOVE.
THE CLOCK WITH THE BELL INSIDE. — STEM SHUT-OFF.

Diameter of case, 4½ inches, nickeled and highly polished
List Price, each, case lots, $1.10
" " " small lots, 1.13

Diameter of case, 4½ inches, seamless brass, nickeled and polished.
List Price, each, case lots, $1.13
" " " small lots, 1.17

Diameter of case, 4½ inches, seamless brass, nickeled and polished.
Stem, ring, feet and keys nickeled.
List Price, each, case lots, $1.18
" " " small lots, 1.22

Every Clock is thoroughly tested before it leaves the factory and is warranted a first class timekeeper.
Packed 50 Clocks in a box, each Clock in a separate pasteboard box.—Name printed on dial (case lots) without additional charge.

THE SHURE WINNER PRICE LIST

These are the best sellers in the line of Whistles

No. N60. A wonderful Swiss Warbler call whistle in envelope with full instructions how to imitate different birds and beasts, remarkable imitations can be produced at first attempt
Per 1000.... 3.50 | Per 100.... .38

N6077 N6078

No. N6075. Round Tin Whistles, a favorite with the school boy who delights greatly in the possession of one of these tin whistles. By a certain manipulation of the tongue a sort of buzzing and singing tone can be produced: 12 gross in box.
Gross ..... .14| Per box 1.35

No. N6078. Novelty Whistles, made of bright tin, 1¼ in. across, in the shape of a round pill box, with hole in center; inserted in mouth and manipulated by tongue, it is a good, loud whistle and the best penny article in this line. 6 gross in box.
Gross ..... .20 | Per box.. .. .90

PUNCH AND JUDY WHISTLE.

No. N6076. Punch and Judy Whistle, the old-time favorite, made of tin, square shape, used by all Punch and Judy operators. No other whistle can be used to imitate the peculiar nasal voice of Mr. Judy. Gross ..... .35

DECORATED WHISTLE.

No. N6081. Tom Thumb Whistle, 1¼ in., white metal, polished, with cone end in color, ring for hanging; a clever little article and a staple seller; one gross in box.
Gross ..... .40

No. N6073. Military or Police Whistle, illustration shows full size, drum shape, made of tin, finished in colors, with flat mouthpiece, bean inside produces a shrill loud whistle. Gross ..... .70

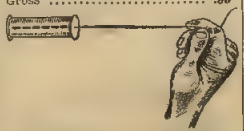
No. N6074, Vocophone, a remarkably devised whistle, produces a sound which is a cross between instrumental and vocal, 1⅛x1½ in. of nickeled tin, bent on itself, with hole punctured through in one end. It may be manipulated by the tongue, the voice and breath to produce a sweet music allied to both singing and instrumental playing. Any song may be sung, and it is capable of producing tones of any pitch very pleasing to the ear. Gross ..... .55

No. N6082. Whistle, white metal, silver finish, 1¾ in. long, round shape, whistle end with pellet inside, ring for hanging, star ornament at other end, ½ gross in box Gross ..... .70

No. N6083. Double End Whistle, white metal, 2 in. long, ridged in center, with ring for hanging. Each end is a whistle of different shape, one end with bean inside. ½ gross in box. Gross ..... .90

No. N6070. Duplex Whistle, formed of 2 tin tubes with a flat mouthpiece, attached at short angle, produces a duplex toned whistle, 2¼ in. long. This is a good item at this price; a staple seller, ½ gross in box. Gross.. .90

No. N6069. Deviline Whistle, polished nickeled tin, fitted with a revolving disc inside, same as in the high priced deviline whistles. The best penny article in the whistle line, ½ gross in box. Gross ..... .90



No. N6080. Warbling Whistle. Produces a tone akin to singing of a canary. The whistle is a tin cylinder, 2½ in. long, closed at both ends, slotted on one side, string attached to one end. The warbling is produced by rapid whirl in a circle on the string. Gross in box. Nicely colored Gross ..... .90

N6062 N6079 N6067

No. N6061. Very finely made whistle, polished nickel plated, very loud
Gross ..... 2.75 | Dozen ..... .25

No. N6079. Police Whistle, made of heavy tin, nickel plated, with ring attached. Flat mouthpiece attached to a cylindrical box in which is a wooden pebble, produces exceptionally loud, clear, shrill whistle, 2 in. long. 1 dozen in box.
Gross ..... 3.50 | Dozen ..... .30

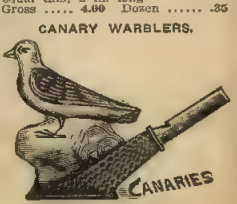
No. N6067. Duplex Cycle Whistle, tin, nickel plated and polished, powerful double reed, very loud, especially suited for postmen.
Gross ..... 3.50 | Dozen ..... .30

No. N6068. Double End Whistle, length 2¾ in., whistle at each end, each different pitch, ring in the center for suspending. Hard white metal fine nickel plated. This is a new item in the line of whistles.
Gross ..... 3.75 | Dozen ..... .33

DEVILINE WHISTLES.

No. N6072. New Devilina Whistle, the original design, nickel plated tube and highly polished. For shrillness of whistle there is no other in the market that will equal this; 2 in. long
Gross ..... 4.00 Dozen ..... .35

CANARY WARBLERS.



No. N6077. The original and only genuine colored Canary Bird Whistle, made of metal, mounted on a hollow limb base. Fill receptacle with water, insert the metallic whistler, which can be manipulated in the blowing to produce the sound of a singing canary; 3 dozen in box.
Gross ..... 2.75 | Dozen ..... .24

The Newest Parker Rotary Hammer Alarm Clock

PRICES EACH.

The Parker Parisian Alarm

No. 160

Newest in design of any clock in the market

Has the Following Exclusive "PARKER" Features.

Double Roller Ratchet Tooth Escapement. Solid Steel Highly Polished Pallets. Cut Steel Pinions and Cut Hard Brass Wheels. Oil Reservoirs on all Pivot Bearings. Easy Winding Keys and Easy Turning Sets. Light, Non-breakable Main Springs.

Also has attachment so alarm can be used either as an Intermittent or Long Alarm.

Thorough Timed and inspected before leaving the factory. Packed 24 in a case. Each clock in a separate paper box, 12 packed in a dust and waterproof carton. No charge for printing names on dials in lots of 24.

Metal Case and Trimmings finished in Art Enamel, Clean and Dustproof. A choice of Nine Art Tones and Tints to Harmonize.
Height, 5¼ inches. Dial, 4 inches. Gong, 4 inches.

Price, each $5.85
Case lots of 24 clocks, each 5.35

The Parker Princess Alarm

No. 150

Has the following exclusive "PARKER" features.

Double Roller Ratchet Tooth Escapement. Solid Steel Highly Polished Pallets. Cut Steel Pinions and Cut Hard Brass Wheels. Oil Reservoirs on all Pivot Bearings. Easy Winding Keys and Easy Turning Sets. Light, Non-breakable Main Springs.

Also has attachment so alarm can be used either as an Intermittent or Long Alarm.

Though timed and inspected before leaving the factory. Packed 48 in a case. Each clock in a separate paper box, 12 packed in a dust and waterproof carton. No charge for printing names on dials in lots of 48.

Metal case and a finish in Art Enamel that is Clean and Dustproof. Choice of Nine Art Tones and Tints to harmonize.
Height, 4⅛ inches. Dial, 4 inches. Gong, 4 inches.

Price, each $3.85
In case lots of 48 clocks, each 3.75

The Parker Clock Co.'s Rotary Hammer Nickel Alarm Clocks

PRICES EACH.

The features that have so firmly established the Parker Clock in public favor are:

The Rotary Hammer Alarm, which is far more effective than any other alarm action.
Careful construction and inspection—making all parts secure.
Fine double roller ratchet tooth escapement, with highly polished steel pallet faces.
Absolute dust-proof cases and cut steel pinions, which greatly prolong the life of the clock.
Removable mainsprings, which may be detached and replaced without disturbing the trains or escapement.
Absolutely reliability—both as to timekeeping and and alarm qualities.
Variety of size, design and finish, Parker Clocks being ornamental as well as useful.

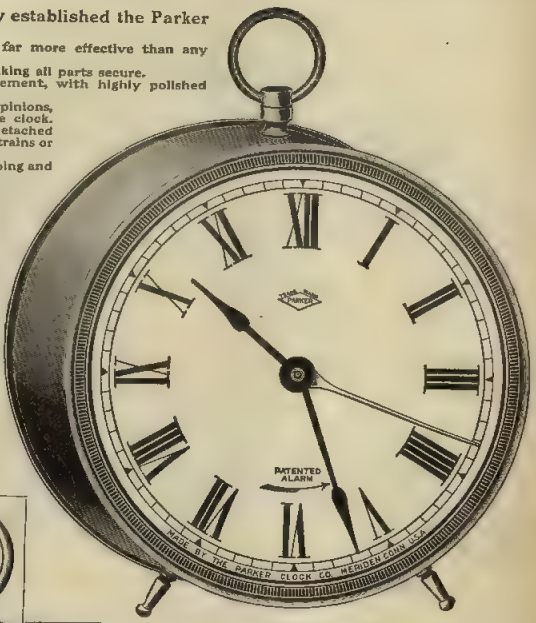
Rotary Hammer Alarm

No. TRADE MARK PARKER 105

Heavy Brass Nickel Plated Case, Dust-proof.

Dial 4½ inches. Height 5½ inches. Features no others have: Three plate movement—quick beat escapement, mirror polished pallets, cut steel pinions, rotary hammer alarm. Alarm never rattles. Dust-proof case.

Price, each, - - - - - **$2.50**
In case lots of 50 clocks, each, - **2.40**



Rotary Hammer Alarm

No. TRADE MARK PARKER 106

Heavy Nickel Plated Case, Dust-proof.

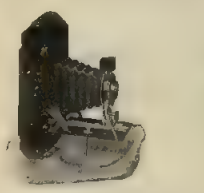
Dial 4 inches. Height 4¾ inches. Heavy nickel plated, dust-proof case. This is the best low-priced but high-grade alarm clock made. The movement has all the good features of the higher priced Parker Clocks, including dust-proof case, cut steel pinions, springs outside the plates, mirror polished pallets, etc. The alarm will ring two minutes, which is from eight to twelve times longer and stronger than any other low-priced alarm clock.

Price, each - - - **$2.35**
In case lots of 50 clocks, each, **2.30**

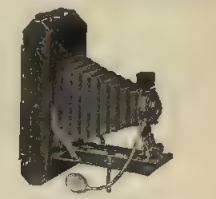
SENCO ROLL FILM CAMERAS

PRICES LIST EACH.

Designed only for spool or roll film, these dainty little instruments appeal altogether to the amateur or tourist. Senco roll film cameras are easy to load any time, anywhere, in daylight or dark. They carry six or twelve exposures, as the operator may desire; are compact, light, and possess an individuality and elegance of finish all their own. The faster lenses and faster films of today have made this style of camera immeasurably better in theory than it was a few years ago, and the Senco Roll Film Camera is made immeasurably better in reality than any instrument of this style that the market affords.



Carrying Case for SENCO Cameras



FOLDING POCKET SENCO No. 1

For Roll Film

Takes 2¼x3¼ Size Pictures

Although designed especially for the beginner, the Senco No. 1 is nevertheless an instrument of considerable range, capable of doing very satisfactory work, even in the hands of the novice. It is a compact, folding camera, easily carried in a pocket of any size, and entirely without confusing attachments. Made of aluminum and the covering is genuine seal grain leather

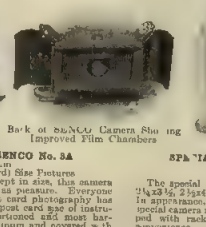
DETAIL OF EQUIPMENT

Size—Made in 2¼x3¼ size only.
Capacity—12 exposures without reloading.
Dimensions of Camera—7x3½x1¾ inches.
Weight—16 ounces
Tripod Sockets—Two.
Focal Capacity—4½ inches
Film Chamber—Improved.
View Finder—Brilliant, reversible
Shutter—Uno Automatic or Autie Automatic (Dustproof)

Manual of Photography. Instruction Book

PRICE OF OUTFIT COMPLETE

SENCO No. 1 with Meniscus Achromatic lens and 1 Uno Automatic Shutter	$36.00
SENCO No. 1 with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter with bulb and tube	39.85
SENCO No. 1 with Rapid Symmetrical, Speed F 8 Lens and Autie Automatic Dustproof Shutter	11.60
SENCO No. 1 with Senco Anastigmat Lens Speed F 6.8, and Autie (Dustproof) Shutter speed 1-100 second	8.35
Black sole leather carrying case with strap	3.60
Film Cartridge, 12 exposures 2¼x3¼	1.15
Film Cartridge, 6 exposures 2¼x3¼	.87
SENCO Portrait Attachment	1.20



Back of SENCO Camera Showing Improved Film Chambers

FOLDING POCKET SENCO No. 3A

For Roll Film

Takes 3¼x5½ (Post Card) Size Pictures

The same as Senco No. 3 except in size, this camera may be used for profit as well as pleasure. Everyone knows to what extent to which post card photography has become popular, and this is the post card size of instrument. It gives correctly proportioned and most harmonious results. Made of aluminum and covered with genuine seal grain leather

DETAIL OF EQUIPMENT

Size—Made in 3¼x5½ size only.
Capacity—10 exposures without reloading.
Dimensions—9½x4¾x4¾ inches
Weight—28 ounces.
Front—Rising and falling
Focal Capacity—7 inches
Film Chamber—Improved.
View Finder—Brilliant, reversible
Tripod Sockets—Two
Shutter—Uno Automatic, Autie Automatic (Dustproof) or Optimo.

Manual of Photography. Instruction Book

PRICE OF OUTFIT COMPLETE

SENCO No. 3A with Meniscus Achromatic Lens and No. 1 Uno Automatic Shutter	$44.95
SENCO No. 3A with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter with bulb and tube	52.00
SENCO No. 3A with Rapid Symmetrical Lens, Speed F 8, and Autie Automatic (Dustproof) Shutter	23.85
SENCO No. 3A with Senco Anastigmat Lens, Speed F 6.8, and Optimo Shutter, Speed 1-300 second	118.35
Black sole leather carrying case with strap	4.15
Film Cartridge, 12 exposures, 3¼x5½	2.00
Film Cartridge, 6 exposures, 3¼x5½	1.15
SENCO Portrait Attachment	1.20

FOLDING POCKET SENCO No. 1A

For Roll Film

Takes 2½x4¼ Size Pictures

This is a thoroughly satisfactory instrument and is strongly recommended for snap shot work. In construction and operation it follows closely the Senco No. 1, but takes a picture 2¼x4¼ inches, and is adapted for a good range of work. Made of aluminum and covered with genuine seal grain leather. The fittings are of nickel and it is handsomely finished.

DETAIL OF EQUIPMENT

Size—Made in 2¼x4¼ size only
Capacity—12 exposures without reloading.
Dimensions of Camera—8½x3⅝x2 inches.
Weight—20 ounces
Front—Rising and falling
Tripod Sockets—Two
Focal Capacity—6½ inches.
Film Chamber—Improved.
View Finder—Brilliant, reversible.
Shutter—Uno Automatic or Autie Automatic (Dustproof)

Manual of Photography. Instruction Book

PRICE OF OUTFIT COMPLETE

SENCO No. 1A with Meniscus Achromatic Lens and No. 1 Uno Automatic Shutter	$30.85
SENCO No. 1A with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter	2.20
SENCO No. 1A with Rapid Symmetrical Lens, Speed F. 8, and Autie Automatic (Dustproof) Shutter	47.38
SENCO No. 1A with Senco Anastigmat Lens, Speed F 6.8, and Optimo Shutter, Speed 1-300 second	6.45
Black sole leather carrying case with strap	3.60
Film Cartridge, 12 exposures 2¼x4¼	1.45
Film Cartridge, 6 exposures 2¼x4¼	.75
SENCO Portrait Attachment	1.20

Back of SENCO Camera Showing Improved Film Chambers

SPECIAL FOLDING POCKET SENCO

For Roll Film

Rack and Pinion

The special Senco is made in four sizes for pictures 2¼x3½, 2½x2¾, 3¼x4¼ and 3¼x5½ (post card size) in appearance, design, material, and general detail this special camera resembles the other Senco models. Equipped with rack and pinion makes correct focusing a convenience. A handsome sole leather carrying case is included in the outfit.

The prices given below are for the outfit complete, including the sole leather carrying case with shoulder strap for same. A Manual of Photography and Instruction Book is included with each outfit.

PRICES

SPECIAL SENCO with Seneca Extra Rapid Anastigmat Lens, Speed F 6.3, and Optimo Shutter Speed 1-300 second	
2½x3½ size	$ 99.35
2½x2¾ size	156.00
3¼x4¼ size	130.10
3¼x5½ size (post card)	161.85
SPECIAL SENCO with Goerz Lens, Speed T. 6.8, and Compound Shutter, Speed 1 200 second.	
2½x3½ size	$155.65
3¼x4¼ size	165.80
3¼x5½ size (post card)	203.35
Film Cartridge, 6 exposures	
2½x3½ size	.67
2½x2¾ size	.70
3¼x4¼ size	1.00
3¼x5½ size (post card)	1.13
Film Cartridge 12 exposures.	
2½x3½ size	1.13
2½x2¾ size	1.40
3¼x4¼ size	2 00
3¼x5½ size (post card) 10 exposures.	3.00

FOLDING POCKET SENCO No. 2

For Roll Film

Takes 3¼x4½ Size Pictures

This camera not only takes a larger picture—and the quarter is the most popular size everywhere—but the instrument is more advanced in type, more pretentious in character than either of its predecessors. It is quite as compact, quite as simple in operation, and its capabilities are greater and more diverse. Made of aluminum and covered with genuine seal grain leather. The fittings are of nickel

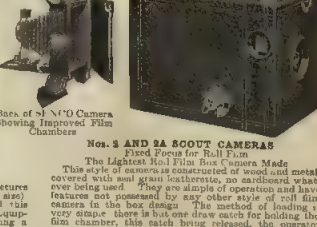
DETAIL OF EQUIPMENT

Size—Made in 3¼x4½ size only
Capacity—12 exposures without reloading
Dimensions—8x4½x2 inches
Weight—23 ounces
Front—Rising and falling
Focal Capacity—6 inches
Film Chamber—Improved
View Finder—Brilliant, reversible
Tripod Sockets—Two.
Shutter—Uno Automatic, Autie Automatic (Dustproof) or Optimo.

Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

SENCO No. 2 with Meniscus Achromatic Lens and No. 1 Uno Automatic Shutter	$36.65
SENCO No. 2 with Rapid Rectilinear Lens and No. 2 Uno Automatic Shutter with bulb and tube	43.75
SENCO No. 2 with Rapid Symmetrical Lens, Speed F 8 and Autie Automatic Dustproof Shutter	64.85
SENCO No. 2 with Senco Anastigmat Lens Speed F 6.8, and Optimo Shutter, Speed 1-300 second	111.15
Black sole leather carrying case with strap	3 80
Film Cartridge, 12 exposures, 3¼x4½	2.00
Film Cartridge, 6 exposures, 3¼x4¼	1.00
SENCO Portrait Attachment	1.20



Back of SENCO Camera Showing Improved Film Chambers

Nos. 2 AND 2A SCOUT CAMERAS

Fixed Focus for Roll Film

The Lightest Roll Film Box Camera Made

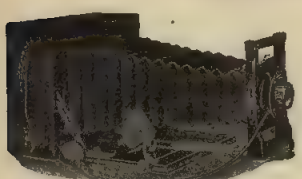
This style of camera is constructed of wood and metal, covered with seal grain leatherette, no cardboard whatever being used. They are simple of operation and have features not possessed by any other style of roll film camera in the box design. The method of loading is very simple: there is but one draw catch for holding the film chamber, this catch being released, the operator is enabled to draw the film chamber from the side of the camera itself and after being loaded it is easily and quickly put in place and locked. The winding key is of an improved type, noiseless and folding. The SCOUT Cameras are a fixed focus type and are especially desirable not only for children but other beginners as well. Those cameras possess two view finders for horizontal and vertical pictures, and an automatic time and instantaneous shutter. The No. 2 SCOUT takes pictures 2¼x3¼ inches, and the No 2A takes pictures 2½x3½ inches.

SPECIFICATIONS

Dimensions—No. 2, 8¾x4½x5¾ inch; No. 2A, 3½x5¾x6
Weight—No. 2, 12 ounces; No. 2A, 16 ounces. Actual weight.
Capacity—No. 2, six exposures without reloading, No. 2A, twelve exposures without reloading.
Lens—Fixed focus Meniscus flat grade
Shutter—Automatic for time or instantaneous exposures.
View Finders—Two for horizontal or vertical pictures
Winding Key—Noiseless and folding
Diaphragm—Two different openings
Film Chambers—Improved

PRICES	No. 2	No. 2A
Scout Camera	$4.75	$7.25
Carrying Case	1.75	1.75
Portrait Attachment	1 50	1.50
Velox Film Cartridge, six exposures	.87	.70
Velox Film No. 2 and 2A Size Rewind Film, No 2A SCOUT uses regular 2A Film		

SENECA CAMERA—List Prices.



SENECA SPECIAL
(Swing Back)

(A Moderate Priced, Long Focus Instrument.)

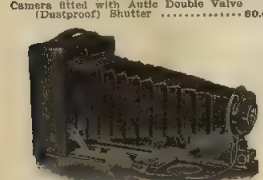
The lens is the celebrated Seneca. Convertible, of three foci, and there is sufficient length of bellows to use the back combination of the lens singly when desired, producing a variety of results. Either the Uno, Duo, (Dustproof) or Autic (Dustproof) Shutter may be fitted.

DETAIL OF EQUIPMENT

Dimensions—In the 5 x 7 size, 8¾x6½x2⅞ inches.
Focal Capacity—12¾ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leather
Camera Bed—Solid mahogany, ebony finish, attched to Camera with improved nickel plated piano hinge
Metal Parts—Brass, handsomely nickel plated
Bellows—Black Russia leather, lined with gossamer cloth
Clamp—Automatic finger grip.
Rack and Pinion—For fine focusing with locking device.
Front—Rising and falling
Back—Spring actuated ground glass panel for focusing
Swing—Back and bed.
Tripod Sockets—two. (One for bed of camera)
Lens—Seneca Convertible Three-focus F. 8.
Shutter—Seneca Uno Automatic, with bulb and tube, Duo or Autic.
View Finder—Brilliant, reversible, metal bound and hooded
Camera. Seneca Improved Light Trap Double Plate Holder
Manual of Photography Instruction Book.
Made in 5 x 7 size only.

PRICE OF OUTFIT COMPLETE

Camera fitted with Uno Shutter $46.00
Camera fitted with Duo Double Valve (Dustproof) Shutter 52.85
Camera fitted with Autic Double Valve (Dustproof) Shutter 60.00



POCKET SENECA No. 32.

Pocket Seneca Number 32, though a true pocket camera, is, nevertheless, ample in size for the purposes of serious pictorial work.

DETAIL OF EQUIPMENT.

Dimensions
In 3¼x4¼ size, 4¾x2½x5½ inches.
In 4 x 5 size, 5¾x2½x6¾ inches.
Focal Capacity
In 3¼x4¼ size, 10 inches.
In 4 x 5 size, 11½ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leather
Camera Bed—Solid mahogany, ebony finish attached to Camera with improved nickel plated piano hinge.
Metal Parts—Brass, handsomely nickel plated.
Bellows—Black Russia leather, lined with gossamer cloth
Front Metallic reinforced, rising and falling
Back—Improved spring, ground glass panel for focusing Removable.
Rack and Pinion—For fine focusing, locking device.
Swing—Either back or bed.
View Finder—Brilliant, reversible, metal bound and hooded
Shutter—Seneca Autic Automatic (Dustproof), with bulb and tube attachment.
Tripod Sockets—Three.
Lens—Triple Convertible, F 8
Camera. Seneca Improved Light Trap Double Plate Holder
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

In 3¼x4¼ size..... $48.66
In 4 x 5 size..... 50.40

POCKET SENECA, No. 29

This Pocket Camera is, of course, especially desirable for tourists and those pleasure seekers who wish a moderate priced pocket instrument. Made in 4 x 6 size only

DETAIL OF EQUIPMENT

Dimensions—6¼x5¼x2¼ inches.
Focal Capacity—9¾ inches.
Camera Box—Ebony finish, corners dovetailed and covered with walrus grain leatheret.
Camera Bed—Ebony finish, attached to Camera with improved nickel plated piano hinge.
Metal Parts—Brass, nickel plated, highly polished.
Bellows—Leatheret, gossamer lined.
Front—Metallic, reinforced.
View Finder—Reversible. Ground glass.
Back—Ground glass panel for focusing.
Tripod Sockets—Two.
Shutter—Seneca Uno with bulb and tube attachment.
Lens—Single Achromatic or Rapid Rectilinear.
Camera. Seneca Light Trap Double Plate Holder
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

	Size 4 x 5
Pocket Seneca, No. 29, fitted with single Achromatic Lens	$18.27
Pocket Seneca No. 29, fitted with Rapid Rectilinear Lens	21.60

POCKET SENECA No. 3A.

3¼x5½ size.

(A Post Card Camera.)

This camera is particularly adapted for post card work, and there is an every day increasing demand for a 3¼x5½ size camera. The No. 3A Pocket Seneca is equipped with a Rapid Rectilinear Lens and choice of Uno, Duo or Autic Shutters.

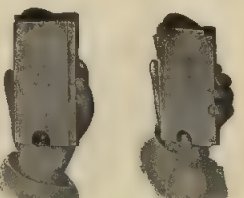
DETAIL OF EQUIPMENT

Made in 3¼x5½ size only
Dimensions—6¾x4½x2⅝ inches.
Focal Capacity—5½ inches.
Front—Metallic reinforced, rising and falling.
Back—Removable spring actuated. Ground glass panel for focusing
Back and Pinion—For fine focusing, with locking device.
Tripod Sockets—Two
View Finder—Brilliant, reversible, metal bound and hooded.
Shutter—Seneca Uno with bulb and tube attachment, Duo or Autic.
Lens—Rapid Rectilinear
Bellows—Black Russia leather, gossamer lined,
Camera. Seneca Improved Light Trap Double Plate Holder.
Manual of Photography. Instruction Book.

PRICE OF OUTFIT COMPLETE

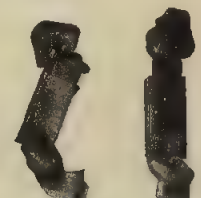
Pocket Seneca No. 3A..... $33.10
Pocket Seneca No. 3A, fitted with Duo Double Valve (Dustproof) Shutter.. 37.85
Pocket Seneca No. 3A, fitted with Autic Double Valve (Dustproof) Shutter..

The Seneca Adapter.



THE SENECA ADAPTER (hingeless) FOR FILM PACKS Loaded, Ready for Use

Removing Pack from THE SENECA ADAPTER (hingeless)



Inserting Pack in THE SENECA ADAPTER (hingeless)

Front View of THE SENECA ADAPTER (hingeless) Showing Side No. Handles on Slide to Break Off.

For the photographers who want to use film in a plate camera—any kind of a plate camera—nothing ever invented equals the **Seneca Light Tight Adapter** (hingeless) **for Film Packs.**

The Seneca is daintily fashioned of aluminum and oak with a press board slide. It gives an added value to the film pack and increases the pleasure of picture taking very appreciably

No matter what make of camera you have, our new Adapter will fit it.

If you have never used the film pack with your plate camera, truly it is time to start, for our new adapter opens the way to the perfect enjoyment of the film pack with any plate camera. The Seneca Adapter is interchangeable with the plate holders Made of cherry—polished, the back or container being of aluminum. There are no hinges to become loosened and perhaps spoil the film, it is light tight.

The film pack, after being inserted in the adapter is tightly held in position by two positive retaining clips, fastened to either side of the Adapter. After the Film pack and Adapter are in position, the exposures are made exactly as if plates were being used.

Whenever it is necessary to remove the film pack from the camera for any purpose, this may be done by simply inserting the slide and removing the Adapter.

If it is desirable to develop the exposed films before the entire pack is exposed, this may be done by removing the pack in a dark room, taking out the exposed films, and reclosing the pack.

The use of the Seneca Adapter (hingeless) for Film Packs gives the added advantage of being able to use the ground glass for focusing purposes while using film for exposures. The slide having been inserted, the adapter may be removed from the camera and the ground glass placed in position. After the image has been sharply focused, the ground glass is removed and the Adapter replaced in the camera. The slide is then withdrawn and the film is ready for the exposures.

The Seneca Adapter (hingeless) for Film Packs may be used with Seneca and all other leading makes of plate cameras.

THE CROWNING FEATURES OF ITS EXCELLENCE ARE:

The ease with which the Adapter is loaded and manipulated

The light trap preventing fogging no matter at what angle the slide is introduced.

The peculiar construction of the slide which has no handle to crack or break off.

The position method of introducing and holding the film packs

PRICES.

Size	
3¼x4¼	$2.85
4 x 5	3 35
3¼x5½ (Post Card)	3 35
5 x 7	5.35

CLOTHES WRINGER ASSORTMENTS

WITH DISPLAY STANDS

Stands are Strongly Made of Hardwood, Finished in Bright Colors and Gold Lettering, with Strong Cast Iron Bases Attractively Decorated in Bright Colors and Mounted on Ball Bearing Casters. Brass Hooks for Hanging Wringers.

12 Piece Wringer Assortment with Rack No. 17

TWELVE PIECE WRINGER ASSORTMENTS

Especially Adapted for Large Stores or Display Rooms Height of Stand 6 feet Occupies 41x20 inch Floor Space

Per Assortment

No. 12A—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs. **$75 00**

Contains the Following Wringers:

1 No. R501 —Royal	1 No. U350—Universal	1 No. K310—Keystone
1 No. R500 —Royal	1 No. U351—Universal	1 No. R101—Rival
1 No. R500E—Royal	1 No. N301—Novelty	1 No. R191—Rival
1 No. R501 —Royal	1 No. N300—Novelty	1 No. F10—Falcon

Per Assortment

***No. 12B**—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs. **$67 50**

Contains the Following Wringers:

1 No. N167—Newhouse	1 No. T 50—Tip Top	1 No. M 63—Merrimac
1 No. N168—Newhouse	1 No. T 51—Tip Top	1 No. M 73—Merrimac
1 No. N177—Newhouse	1 No. T180—Tip Top	1 No. M110—Mizzoo
1 No. N178—Newhouse	1 No. T181—Tip Top	1 No. M111—Mizzoo

Per Assortment

No. 12C—Consists of Rack No. 17 and **12 Wringers** as Specified Below; Weight Complete 320 lbs. **$67 00**

Contains the Following Wringers:

1 No. E350—Empire	1 No. R100 —Rival	1 No. R191 —Rival
1 No. U350—Universal	1 No. R101 —Rival	1 No. R192 —Rival
1 No. K310—Keystone	1 No. N300—Novelty	1 No. F 10—Falcon
1 No. N300—Novelty	1 No. R190 —Rival	1 No. F 11 Falcon

SIX PIECE WRINGER ASSORTMENTS

Height of Stand 6 feet, Occupies 20x20 inch Floor Space; Mounted on Casters

Per Assortment

***No. 6A**—Consists of Rack No. 14 and **6 Wringers** as Specified Below, Weight Complete 190 lbs. **$33 00**

Contains the Following Wringers:

1 No. N167—Newhouse	1 No. M63—Merrimac	1 No. T50—Tip Top
1 No. N177—Newhouse	1 No. M73—Merrimac	1 No. T51—Tip Top

Per Assortment

No. 6B—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs. . . **$33 00**

Contains the Following Wringers:

1 No. U350—Universal	1 No. N301 —Novelty	1 No. R100 Rival
1 No. E350—Empire	1 No. K311—Keystone	1 No. F10—Falcon

Per Assortment

***No. 6C**—Consists of Rack No. 14 and **6 Wringers** as Specified Below, Weight Complete 190 lbs. **$29 00**

Contains the Following Wringers:

1 No. M63 —Merrimac	1 No. T51 —Tip Top	1 No. M110—Mizzoo
1 No. T50—Tip Top	1 No. T180—Tip Top	1 No. M111—Mizzoo

Per Assortment

No. 6D—Consists of Rack No. 14 and **6 Wringers** as Specified Below; Weight Complete 190 lbs. **$28 50**

Contains of the Following Wringers:

1 No. R501—Royal	1 No. U351—Universal	1 No. R101 Rival
1 No. R601—Royal	1 No. U381—Universal	1 No. R191—Rival

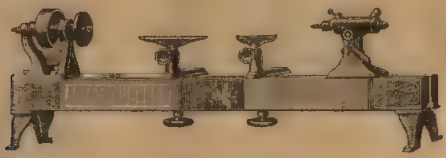
6 Piece Wringer Assortment with Rack No. 14

Stand Crated; Wringers Cased

"DIAMOND EDGE IS A QUALITY PLEDGE"

LATHES

WOOD TURNING



BARNES

WITH BENCH LEGS

Hardwood Bed, Cast Iron Legs, Slide Rests, Pulleys and Hand Wheels; Steel Face Plate Axles and Bolts Will Take Stuff 12 inches in Diameter and 3 Feet Long. Speed can be Varied From 1000 to 2000 Revolutions per Minute

Each

+No. B3—Bed 5x11 inches, Size of Pulley 6x2 inches, One Slide Rest Each 9 inches, 5 inch Height Over All 18¼ inches, Diameter of Face Plate 4½ inches, Weight Boxed 75 lbs. $48 00

One in a Case

MILLERS FALLS

Drive Wheel and Cone Pulley with Two Grooves to Permit Change of Speed.
Long and Short Tool Rests.
Turning Tools, Wrench and Drill Points, etc.
Lathe Head with 2-inch **Face Plate and Spur Center** and **Screw Center** for turning Cups.
Emery Wheel, 4½x¾ inch.
Drill Spindle with Chuck for Drill Points for Wood Boring.
Tail Stock with Screw Feed clamped at any Point.
Swing of Lathe, 5 inches, Distance Between Centers, 13½ inches, Distance of Bed from Floor, 27 inches, Length of Bed, 24 inches
Fret Sawing Attachment, Quickly Attachable or Detachable, with Nickled Table, Ash Wood Arms, Dust Blower, Adjustable Saw Guide and Lever, Saw Blades, Designs, etc.
Circular Saw Attachment, with Saw Table 6x7 inches, Saw Arbor, Saw Blade 3 inches in Diameter, and Straight Edge Guide.
The Whole Machine is Thoroughly Built and Highly Finished, Polished Parts being Nickeled.

Each

No. C170—Furnished with **Five** Turning Tools and Three Jawed Star Chuck for Holding Round Shank Drills from 0 to ½ inch; Net Weight 60 lbs. $20.65

One in a Box, Knocked Down, Shipping Weight 81 lbs.

Each

No. C105—Furnished with Three Turning Tools, Three Jawed Chuck not Furnished with this Lathe; Net Weight 60 lbs. $17.85

One in a Box, Knocked Down, Shipping Weight 81 lbs.

Items marked + Not Carried in Stock; Can Only be Furnished by Shipping Direct From Factory.

CROQUET

"STANDARD BRAND"—Manufactured by South Bend Toy Manufacturing Co., South Bend, Ind.

This Croquet Represents Highest Quality in Croquet Line. Made on Improved Lathes Especially Designed for the Purpose, and the Same Careful Attention Given to the Lower Grades as to the Higher. We Use Nothing but the Best Selected Material in the Different Grades and the Balls Especially are Turned from Perfect Timber, Free from Knots, Cracks and Other Imperfections.

FOUR BALL

Per Set

No. 06—Plain Set, Mallets Oiled, Balls and Stakes Varnished, Nine Arches, with Book. Weight per Set 14 lbs. . . . $1 85

SIX BALL

Per Set

No. 10—Plain Set, Mallets Oiled, Balls and Stakes Varnished, Ten Arches with Book. Weight per Set 17 lbs. . . . $2 00

EIGHT BALL

Per Set

No. A—Plain Set, Mallets Oiled, Balls and Stakes Varnished, Ten Arches, with Book. Weight per Set 20 lbs. . . . $2 10

EIGHT BALL SETS

Per Set

No. 1—Handles, Balls and Mallets Painted and Striped, Heavy Galvanized Arches, Two Large Stakes, a Neatly Finished Set; Weight per Set 25 lbs. . . . $3 70

Per Set

No. XA—All Parts Varnished, Mallets Painted, Two Eight Colored Stakes, Ten Arches with Book, Weight per Set 26 lbs. . . . $3 10

Per Set

No. 2—Mallets of Neat Design, Balls, Handles and Mallets Painted and Striped, Two Large Fancy Stakes, Heavy Galvanized Arches; Weight per Set 25 lbs. . . . $5 00

Per Set

No. 3—A Very Handsome Maple Set, Shellac Finish, with Fancy Mallets, Six Inches Long, Striped Handles and Balls, Two Elegant Beaded Stakes, Heavy Arches with Sockets, Select Material in Every Part. Weight per Set 27 lbs. . . . $8 00

Per Set

No. 4—An Elegant Set with Shellac Finish, Eight Fancy Striped Ebonized and Bronzed Mallets, Six Inches Long, Handles and Balls Beautifully Painted and Striped. Two Elegant Beaded Stakes, Heavy Arches, with Sockets. Weight per Set 28 lbs. . . . $8 35

Every Set of Croquet Contains a Book of Instructions and Rules

One Set in a Dovetailed, Hinged Cover Wood Box. Three Boxes in a Crate

"DIAMOND EDGE IS A QUALITY PLEDGE"

CROQUET

"STANDARD BRAND"—Manufactured by the South Bend Toy Manufacturing Co., South Bend, Ind.

This Croquet Represents Highest Quality in Croquet Line Made on Improved Lathes Especially Designed for the Purpose, and the Same Careful Attention Given to the Lower Grades as to the Higher We Use Nothing but the Best Selected Material in the Different Grades and the Balls Especially are Turned from Perfect Timber Free from Knots, Cracks and Other Imperfections.

PROFESSIONAL SETS

Per Set

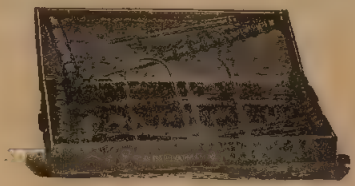
No. 6—Four Eight Inch Mallets; Short Striped Handles Two Large Stakes; Heavy Galvanized Arches, a Very Popular Set. Weight per Set 10 lbs. $3.85

Per Set

No. 7—Four Eight Inch Mallets, with Short Handles, Striped Balls and Mallets, Two Large Handsome Stakes; Heavy Arches, with Sockets, a Desirable Set for Expert Players; Weight per Set 17 lbs $6.60

Per Set

No. 8—Four Nine Inch Mallets; Handsomely Painted, Short Handles, Beaded and Striped, Shellac and Bronze Finish; Two Elegant Beaded Stakes; Heavy Arches, with Sockets; Striped Balls; an Exceptionally Fine Set; Weight per Set 18 lbs. $7 70



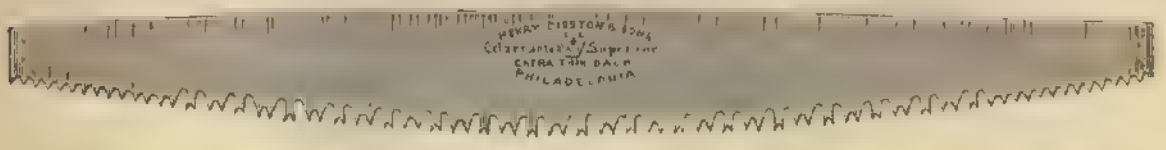
Cut Shows Style of Box in Which all of Our Croquet is Packed

Every Set of Croquet Contains a Book of Instructions and Rules

One Set in a Dovetailed, Hinged Cover Wood Box Three Boxes in a Crate—factory will not break crates

CROSS CUT SAWS

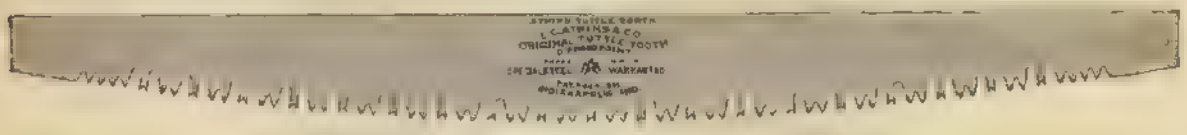
DISSTON'S



No. 2—Champion Tooth, Thin Back, Spring Steel, 14 Gauge at Tooth Edge, 16 Gauge at Back Edge

Length, Feet	5	5½	6	6½	7
Weight Each, Lbs	5½	7	8½	9	10
Each, without Handles	$2 76	2 97	3 24	3 61	3.78
	3 30	3.60	4 00	4 20	4 50

ATKINS'



Original Tuttle Tooth, Diamond Point, Special Steel

No. 330—Thin Back, 14 Gauge at Tooth Edge, 16 Gauge at Back Edge

Length, Feet	5½	6	6½
Weight Each, Lbs	7	8½	9
Each, without Handles	$2 64	2 88	3 12
	3.60	3 90	4 20

DEXTER

No. 210—Concave Tooth, Special Steel, Thin Back, 14 Gauge at Tooth Edge, 18 Gauge at Back Edge

Length, Feet	5½	6	6½	7
Weight Each, Lbs	6½	8	9	10
Each, without Handles	$4.40	4 80	5 20	5 60
	5 50	6 00	6 50	7 00

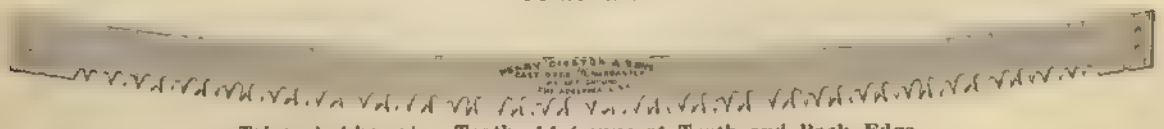
SIMONDS'

No. 22—Crescent Ground, Crucible Cast Steel, Perforated Lance Tooth, 14 Gauge at Tooth Edge, 16 Gauge at Ends on Back of Saw, 19 Gauge at Center of Back Edge

Length, Feet	5½	6
Weight Each, Lbs	5½	7¾
Each, without Handles	$5.10	5.90
	6.12	7.08

NARROW CROSS CUT SAWS

DISSTON'S



Triumph Champion Tooth, 14 Gauge at Tooth and Back Edge

Length, Feet	5	5½	6	6½
Weight Each Lbs	3½	4	4½	5
Each, without Handles	$1 75	1 93	2 10	2 28
	1 90	2 10	2 20	2 50

KEYSTONE

Champion Tooth, 14 Gauge at Tooth and Back Edge

Length, Inches	5	5½	6
Weight Each, Lbs.	3½	4	4½
Each, without Handles.	$1 70	1 90	2 00

ONE MAN CROSS CUT SAWS

DISSTON'S

No. 2—Champion Tooth, Beechwood Handle with Varnished Edges, Beechwood Top Handle

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs	3¾	4½	5½	6	7½
Each, with Handles	$2.25	2 60	3 00	3 15	3 70
	2 40	2 80	3 20	3 60	4 00

KEYSTONE

No. 2—Champion Tooth, Beechwood Handle with Varnished Edges, Beechwood Top Handle

Length, Feet	3	3½	4	4½	5
Weight Each, Lbs	3¾	4⅝	5½	6	7½
Each, with Handles	$2 10	2 45	2 80	3 15	3 50
	2 20	2 60	3 00	3 40	3 80

HAND ICE SAWS

DISSTON'S

No. 76—Beechwood Handle, V Tooth

Length, Inches	18	24	30	36	42
Weight Per Dozen, Lbs	17	23	24	29	32
Per Dozen	$13.20	16.80	20.40	24 00	27 60

KEYSTONE

No. 80—Hollow Back, Beechwood Handle, V Tooth

Length, Inches	20	24	30	36	42
Weight Per Dozen, Lbs	20	23	24	29	32
Per Dozen	$12 00	14 40	16 80	20 40	24 00

SAW SETS

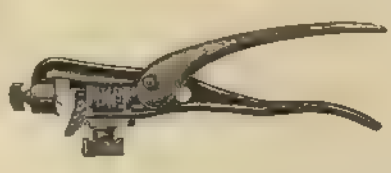
MORRILL PATTERN

Per Dozen

No. 100—6¾ in. Long, Malleable Iron, Polished, Hardened Anvil and Plunger, Tempered Steel Springs, for Hand, Band and Jig Saws, from the Widest Made Down to ½ in. $7.00

No. 1C—6¾ in. Long, Malleable Iron, Polished, Hardened Tool Steel Anvil, Improved Plunger, Tempered Steel Springs, for all Hand and Band Saws 6 00

Weight Per Dozen 8 Pounds
One-half Dozen in a Box



Per Dozen

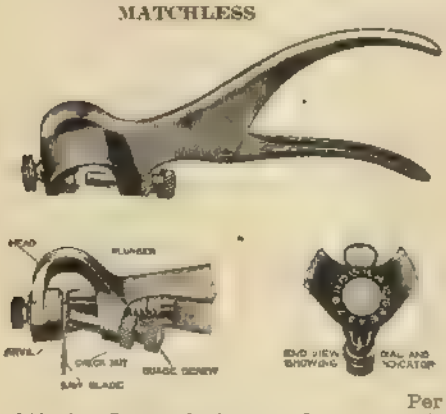
No. 17 9½ in. Long, Malleable Iron, Polished, Steel Anvil and Plunger, for Cross Cut and Small Circular Saws $14.00

No. 3C—9 in. Long, Malleable Iron, Polished, Hardened Tool Steel Anvil and Plunger, for Cross Cut Saws..... 13 00

No. 4C—Same as No. 3C, but for Cross Cut and Champion or M Tooth Saws..... 13 00

Weight Per Dozen 17 Pounds
One-half Dozen in a Box

MATCHLESS

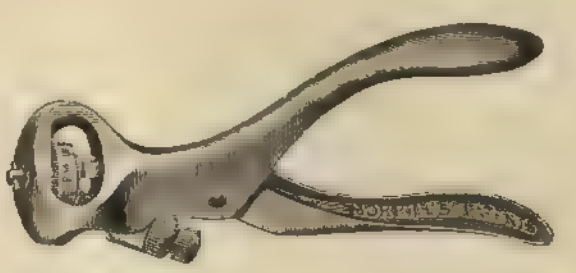


Per Dozen

No. 395—6½ in. Long, Malleable Iron, Nickel Plated, Hardened Anvil and Plunger, Tempered Steel Sprng, for Hand, Band and Jig Saws, Any Width. . . $15 00

Weight Per Dozen 8 Pounds
One-half Dozen in a Box

MORRILL'S SPECIAL



Per Dozen

Special—6⅜ in. Long, Semi and Tool Steel, Polished, for Hand Saws from the Widest Made Down to ½ in. in Width and not Over 16 Gauge $16.00

This is the latest and most improved Saw Set. Can be used by any inexperienced person with as perfect results as can be obtained by the most expert mechanic.

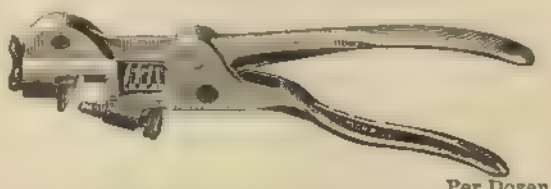
Weight Per Dozen 8 Pounds
One-half Dozen in a Box

MORRILL'S

Per Dozen

No. 1—6¾ in. Long, Semi and Tool Steel, Polished, for Hand Saws from the Widest Made Down to ½ in. in Width and not Over 16 Gauge $15 00

Weight Per Dozen 7 Pounds
One-half Dozen in a Box



Per Dozen

No. 4—9 in. Long, Semi and Tool Steel, for Cross Cut M and Champion Tooth Saws, from 14 to 20 Gauge..... $21.00

Weight Per Dozen 15 Pounds
One-half Dozen in a Box

TAINTOR'S POSITIVE

Per Dozen

No. 7—6 in. Long, All Steel, Neatly Finished, Anvil Has 10 Different Pitches, for Hand and Other Fine Tooth Saws..... $13 50

Weight Per Dozen 7 Pounds
One-half Dozen in a Box

MONARCH

Per Dozen

No. 1—6 in. Long, Cast Iron, Japanned, Hardened Steel Plunger and Anvil, for Hand, Panel, Wood and Other Saws..... $12.00

Weight Per Dozen 8 Pounds
One-half Dozen in a Box

GASOLINE LAMPS.

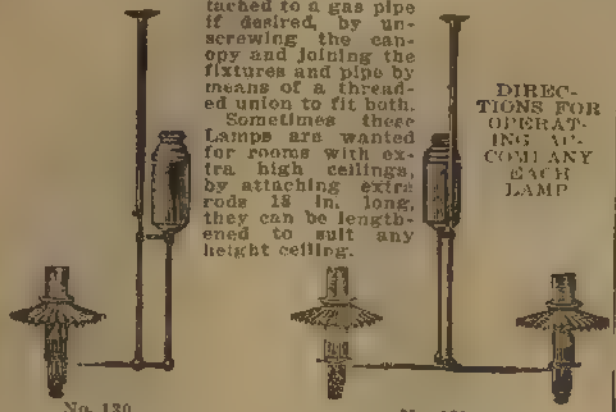
SIMMONS DELMAR.

Complete with Mantles, 9 in. Welsbach Chimneys, 7 in. Corrugated Opal Shades and Alcohol Dropper for Lighting.

Either of these fixtures can be attached to a gas pipe if desired, by unscrewing the canopy and joining the fixtures and pipe by means of a threaded union to fit both.

Sometimes these Lamps are wanted for rooms with extra high ceilings, by attaching extra rods 18 in. long, they can be lengthened to suit any height ceiling.

DIRECTIONS FOR OPERATING ACCOMPANY EACH LAMP



No. 130. No. 131.

Brass, Nickel Plated; Outside Telescopic Tube ⅛ in., Inside ¼ in. Gasoline Tube ⅛ in., Filler Tube 5/16 in.; Brass Reservoir with Shut-off Oil Valve; Length from Bottom of Burner to Ceiling Plate, Closed, 36 in., Extended, 62 in.

Each

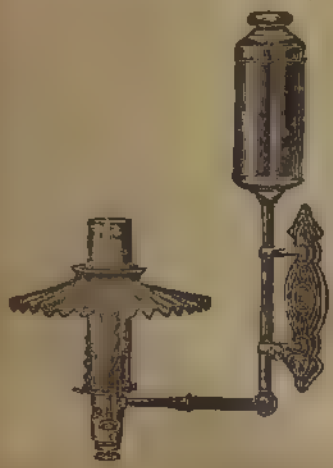
No. 130—SINGLE LIGHT, Reservoir Receptacle 7⅛x3⅝ in.; Capacity 1⅝ Pints, Will Burn about 10 Hours.....$9.20

Weight Each about 13 lbs.

No. 131—DOUBLE LIGHT, Reservoir Receptacle 10¾x4 in., Capacity 1⅝ Quarts; Will Burn about 7 Hours; Spread of Burners 25 in.....$14.00

Weight Each about 25 lbs.

One in a Wood Box.



Brass, Nickel Plated; Gasoline Tube ⅛ in., Filler Tube 5/16 in.; Reservoir Receptacle 7⅛x3⅝ in.; Brass Reservoir with Shut-off Oil Valve, Capacity 1⅝ Pints; Will Burn about 10 Hours; Adjustable Cast Iron Wall Plate to Attach with Screws (no screws included), Height from Bottom of Burner to Top of Tank 25½ in., Projects 9 in.

No. 132—BRACKET LIGHT; Complete; Weight each about 12 lbs.....Each, $9.50

One in a Wood Box.

Extra Parts for SIMMONS Delmar Gasoline Lamps.

	Each
Burners, Complete with Filler Tube	$3.30
Needle Valves	.34
Shut-off Valves	.34
Chimney and Shade Galleries	.60
Gauze Caps	.12
Reducers	.18
Unions, for Gas Pipe Connections	.40
Extensions, 18 in. Rods, Nickel Plated	.80
Filler Tubes	.34
No. R130—Reservoirs, for Lamps Nos. 130 and 132	2.20
No. R131—Reservoirs, for Lamps No. 131	2.70

Packed Loose, Can be Mailed

PORTABLE GASOLINE LAMPS.

HYDRO-CARBON GASOLINE VAPOR AIR-O-LITE.

Needs filling only once a week by 3 Hours use each night. Gives a Light five times greater than any Center Draft Oil Burner and Twice as great as any Mantle Gas Burner; The light is soft and soothing to the Eye; Can be held in any Position, will burn at any angle; Can also be hung from Ceiling

Supply Tank made of Extra Heavy Brass, Nickel Plated, with Double Seamed and Reinforced Extra Heavy Steel Bottom; Threaded Filler Cap, with Patented Ball Retaining Air Valve; Brass Nickel Plated Feed and Generating Tube which extends from Bottom of Tank to Entrance of Burner, with Vulcanized Fibre Carrying Handle; Brass Nickel Plated Double Burner and Air Tube for regulating Bunsen; Furnished with 2 Gasoline Rag Mantles complete with No. 710 10-in. Plain White Dome Shade, which is securely fastened to Head of Burner by means of a Threaded Heat Bell so that it positively cannot fall off.

The Air-O-Lite Lamp is so Constructed that it cannot explode under any circumstances. Each Tank has been tested under a 200 lb. Air Pressure, while it only needs about 10 lbs. to feed the Lamp. It is also fitted with a sealing tube so that it is impossible to put in more Gasoline than it needs, thus always having plenty of Air Space.

The Feed Tube is fitted on Inside with a Brass Rod, which extends to within 4 in. from the Top. This Rod checks the flow of Gasoline so that it will feed absolutely uniform. At the top of this Rod there is a removable Asbestos Wick through which the Gasoline is forced by the Air from the Tank as it generates into Vapor so that only Vapor can pass through the Wire Gauze and Feed Hole leading to the Burner. The Holes in the Wire Gauze at top of Feed Tube are about half the size of Hole through which the Vapor feeds, thus making it impossible for any Carbon to clog up the Feed Holes. This Arrangement does away with the need of the small, troublesome orifices which always interfere with the Vapor.

The Double Burner is fitted with an Air or Bunson Regulating Tube which is equipped at end with a Threaded Regulating Cap to regulate the Light. To light the Lamp it is only necessary to saturate the two prong Asbestos Torch (furnished with each Lamp) with Alcohol and slip the Torch around the Tube immediately beneath the Mantles, and after lighting the Alcohol on the Torch and allowing it to burn not more than 2 minutes, it is then generated enough to be ready for lighting by simply lifting the Cap above the Tank and turning on the Jet. The Lamp is then in operation

When filling the Tank it is only necessary to unscrew the Filler Cap and Pour in the Gasoline until it reaches the Safety Tube, then re-insert the Filler Cap and remove the Air Valve Button and pump in about 25 strokes of Air with Pump furnished with each Lamp. This will give the Lamp about 25 lbs. Air Pressure, which is all it needs.

The Tank requires filling only once a week burning it 3 hours each Night, and if after the second or third Night the Light should burn dim it is because the Gasoline has been fed away and reduced the air pressure, and by removing the Cap of Air Valve and giving it 10 strokes of Air from the Pump it will again burn as bright as when first filled.

Pump furnished with this Lamp is extra well made of ¾ in. Diameter Brass Nickel Plated Tubing, with Ebonized Wood Handle and Coppered Steel Plunger Rod and Leather Plunger; Length over all 11¼ in.

Each

No. 140A—Capacity of Tank 1½ Quarts; Height over all 23 in.; Diameter of Base 7 in.; Weight each about 10 lbs.....$11.00

One in a Cardboard Box.

EXTRA MANTLES FOR PORTABLE GASOLINE LAMPS.

Per Dozen

No. 140HC—Weight per dozen about ½ lb.....$1.30

One-twelfth Dozen in a Waxed Envelope; One Dozen in a Package

WE MAKE NO CHARGE FOR PACKING.

‡GASOLINE LAMPS.

KNIGHT

FOR HOLLOW WIRE SYSTEM.

These Lamps are intended for use with air pressure Gasoline Supply Tanks, from which a Hollow Wire leads to the Lamp Connections. Each Lamp is furnished complete as shown (less Tanks).

The amount of Tubing and parts needed depends entirely on the distance the user expects to place the Tank from the Lamps. The Tanks will furnish Pressure for Six Lights or less, which is what is known as one Lighting System.

The Lamps are simple in construction, consisting of a Generator and a Gas Tube leading to the Burner, into which the Vaporized Gasoline is injected from a small orifice. Air drawn in as the Gas passes from the Generator forms 95 per cent. of the Volume. The Gas thus formed burns within an Incandescent Mantle, creating a Light of intense Purity and Brilliancy. The Generator is supported directly above the Mantle and receives the Heat therefrom; the Gasoline comes to the Lamp cold and the entire Process of Gasification is carried on in the Lamp itself. The Generator is initially heated with an asbestos torch saturated with Wood Alcohol. This requires only one-half or three-fourths of a Minute.

The Tubing is a fraction smaller than a Match in diameter is of special manufacture in any lengths so that joints are avoided, and of a quality that allows it to be bent into almost any shape without fracture, and can be handled the same as an Electric Wire. The strength of this Tube is such that it will withstand a pressure of One Thousand pounds, but in actual operation is never subjected to more than 15 or 20 lbs.

Clogging is an absolute impossibility for there is no Heat applied to the Wick to cause Solids in the Gasoline to adhere to its sides, and, as a matter of fact, Gasoline is a Cleanser.

No. 1A

Each

No. 1A—Nickel Plated Brass Fixture, Complete with Burner, Mantle and No. 981 Clear Glass Globe; Length of Fixture 26 in.; Weight each about 15 lbs. $5.70

No. 19—Brass Fixture finished in White Enamel, Complete with Burner, Mantle and 8 in. Round Opal Globe; Length of Fixture 24 in.; Weight each about 25 lbs. $11.40

No. 19

No. 22

Each

No. 22—Nickel Plated Brass Fixture; Complete with Burner, Mantle, 1 Extra Generator and No. 981 Frosted Top Globe; Length of Fixture 24 in.; Weight each about 15 lbs. $8.10

No. 24—Nickel Plated Brass Fixture; Complete with Burner, Mantle and No. 433 Opal Globe; Length of Fixture 24 in.; Weight each about 15 lbs. 8.60

No. 24.

No. 16.

Each

No. 16—Brass Fixture, Oxidized Copper Finish; Complete with Burner, Mantle and No. QC Opal Globe, Length of Fixture 24 in.; Weight each about 20 lbs. $6.70

No. 17—Brass Fixture, Oxidized Copper Finish, with Steel Canopy; Complete with Burner, Mantle and No. 433 Clear Glass Globe; Length of Fixture 24 in.; Weight each about 25 lbs. 10.50

No. 17.

Packed as Ordered.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

‡GASOLINE LAMPS.

KNIGHT.

FOR HOLLOW WIRE SYSTEM

No. 137K—Brass Fixture, Oxidized Copper Finish; Complete with Burner, Mantle and No. QC Opal Globe; Length of Fixture 22 in.; Weight each about 15 lbs. ..... Each, $7.60

Packed as Ordered.

‡PRESSURE TANKS.

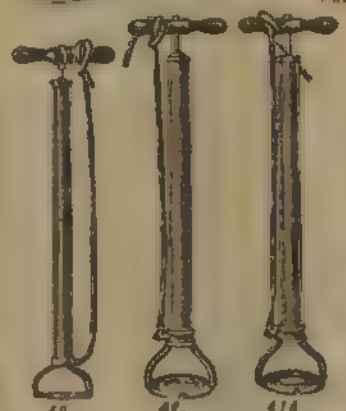
Heavy Galvanized Sheet Steel Double Seamed, Boiler Riveted and Soldered, Gas tested to be absolutely Air Tight, Fitted with an Inlet and Outlet Brass Shut Off Valves and a Patent Filler Valve. Furnished Complete with Brass Pressure Gauge with Glass Face.

Any of these Tanks will work on any of the Lamps listed. It therefore depends on the Capacity the User desires.

Finished in either Aluminum or Red Enamel.

Nos.	28	29	30	31
Size, inches	5x8	7x12	7x18	7x24
Capacity, gallons	¼	2	3	4
Each	$8.00	9.10	9.90	10.50
Nos.	32	33	34	35
Size, inches	7x30	10x24	10x30	10x36
Capacity, gallons	5	8	10	12
Each	$11.20	12.40	13.80	15.20

Packed Loose



40. 41. 41A

‡PUMPS.

These Pumps are especially adapted for use with Gasoline Lighting Systems. They are substantially constructed, and fitted with Rubber Tubing with Nipple Attachments to fit the Tanks

No. 40—1⅛ x 20. Steel barrel ..... Each, $1.70

No. 41—1½x20. Brass barrel ..... Each, 2.80

No. 41A—1½x28. Brass barrel ..... Each, 3.40

Packed Loose.

‡EXTRA PARTS FOR KNIGHT GASOLINE LAMPS.

1011 1014 101

1021. 1022 1026

1031 1032

1042. 1024. Cleat.

The above cut shows the various parts especially adapted for use on Gasoline Lighting Systems. It depends altogether on the amount of curves and bends user expects to make when installing the Lamps as to which of these parts he will need, which will be easily understood by anyone who expects to install one or more Lamps.

No. 1011—Male connection to fit No. 101 Each .20

No. 1014—Double Reducing connection Each .30

No. 101, Tubing for either regular or blind Each, .08½

No. 1021—Connection Each .20

No. 1022—Connection, with No. 101 Per Set .30

No. 1026—Connection with No. 101 Per Set .45

No. 1036—Connection with No. 101 Per Set .45

No. 1031—Connection Each .20

No. 1032—Connection, with No. 101 Per Set .40

No. 1042—Connection, with No. 101 Per Set .25

No. 1024—Connection, with No. 101 Per Set .30

No. 2—Wire Tubing Per Pound (about 50 ft.) 2.50

No. 2—Wire Tubing for splicing Per Foot, .20

Cleat for holding Per Dozen, .30

Extra for making Wire Joints to Connections when so desired Each, .25

GENERAL INSTRUCTIONS FOR ORDERING LIGHTING FIXTURES.

In ordering Lighting Fixtures, it will be necessary to know the Style of Outlet to which the Fixtures will be attached.

Below we show four illustrations of Outlets which are most commonly used.

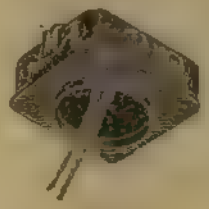
No. 1.

No. 2

No. 1 shows Outlet where the wires protrude through plaster or wood walls or ceiling, and a Crow Foot is used on the Fixture. Crow Feet are included in the price of all Electric Fixtures.

No. 2 shows Combination Gas and Electric Outlet where an Insulating Joint is required. Insulating Joints are included in the price of Combination Fixtures only.

No. 3.



No. 4.

No. 3 shows Box Outlet with ⅜ in. Fixture Stud attached. An Insulating Joint is required.

No. 4 shows a Box Outlet with the Conduit pipe acting as the Fixture Support; A ½ inch Conduit Joint is required.

An Extra Charge of 25¢ Net will be made for Insulating Joints, unless included in price of Fixture.

Length and Spread of Fixtures is determined from Extreme Points, including Glassware.

ELECTRIC SHOWER LIGHTS.

Solid Brass Ceiling Plate and Link Chain Hanger, Satin Finish; Wired Throughout; Fitted with New Wrinkle Key Sockets.

NO BULBS INCLUDED.

FOR LIBRARY OR DINING ROOMS.

Extreme Length 42 in.; Solid Brass Canopy, Satin Finish, Size 14x14 in., 2¼ in. Glass Shade Holders, Complete with No. 664½/CRI Center Globe and No. 657/CRI Crystal Shades, Frosted, Roughed Inside.

Each

No. S 1020—FIVE LIGHT; Wgt. each about 35 lbs. . . $22.50

Packed Loose.

ELECTRIC SHOWER LIGHTS.

Solid Brass Ceiling Plate and Link Chain Hanger, Satin Finish; Wired Throughout. Fitted with New Wrinkle Key Sockets.

NO BULBS INCLUDED.

FOR LIBRARY OR DINING ROOMS.

Extreme Length 42 in.; Diameter of Canopy 14 in.; 2¼ in. Shade Holders.

Crystal Shades, Frosted, Roughed Inside.

Each

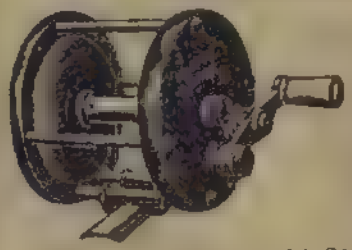
No. S 1022/4—FOUR LIGHT; Complete with No. 665/CRI Shades; Weight each about 30 lbs. . . . $17.00

No. S/1022 5—FIVE LIGHT; Complete with Four No. 665/CRI and One No. 605/CRI Shades; Weight each about 35 lbs. 20.00

Packed Loose.

REELS.

QUADRUPLE MULTIPLYING.



Celluloid Balance Handle; Screwed; Rubber Plates, Strengthened by Metal Bands; Nickel Plated; Steel Pivots; Screw-off Oil Caps; Back Sliding Adjustable Drag and Click; Width of Spool 1⅝ in.; Nicely Finished.

WALTON CASTING

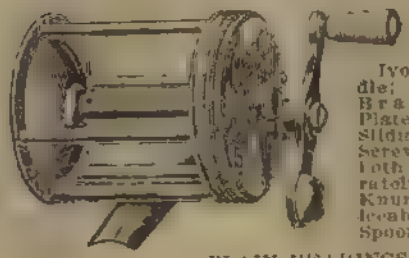
PLAIN BEARINGS.

Nos.	W60	W80
Capacity, yards	60	80
Diameter of Discs, Inches	2⅜	2½
Weight per dozen about, lbs	5¼	5¾
Per dozen	$36.00	42.00

AGATE BEARINGS.

Nos.	WJ60	WJ80
Capacity, yards	60	80
Diameter of Discs, Inches	2⅜	2½
Weight per dozen about, lbs	5¼	5¾
Per dozen	$48.00	54.00

MASCOT CASTING.



Ivory Balance Handle; Screwed; Heavy Brass, Finely Nickel Plated and Polished Sliding Drag and Click; Screw-off Oil Cups on both ends. Gears Accurately Cut; Steel Axle Knurled Finish; A Serviceable Reel; Width of Spoon 1⅝ in.

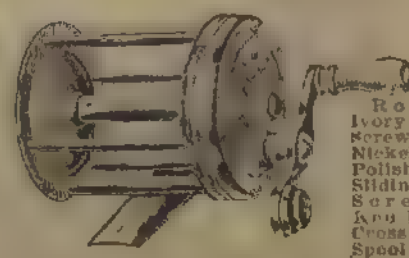
PLAIN BEARINGS.

Nos.	MC 60	MC 80
Capacity, yards	60	80
Diameter of Discs, Inches	2	2¼
Weight per dozen about, lbs	6	7½
Per dozen	$27.60	32.00

JEWELED BEARINGS.

Nos.	MCJ60	MCJ80
Capacity, yards	60	80
Diameter of Discs, Inches	2	2¼
Weight per dozen about, lbs	6	7½
Per dozen	$33.00	42.00

INVINCIBLE QUAD.



Round Disc Pattern, Ivory Balance Handle; Screw; Brass, Heavily Nickel Plated and Highly Polished; Steel Pinions; Sliding Drag and Click; Screw-off Oil Caps; Knurled Finish; Solid Cross Plate; Width of Spool 1⅝ in.

PLAIN BEARINGS.

Nos.	66	80	100
Capacity, yards	60	80	100
Diameter of Discs, Inches	2	2¼	2½
Weight per dozen about, lbs	5¼	6½	7¾
Per dozen	$18.50	20.50	23.00

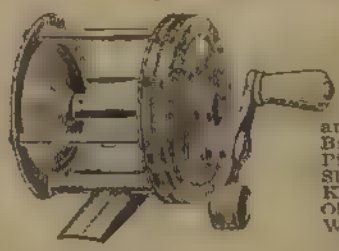
JEWELED BEARINGS.

Nos.	66J	80J
Capacity, yards	60	80
Diameter of Discs, Inches	2	2¼
Weight per dozen about, lbs	5¼	6¾
Per dozen	$24.00	27.00

One-twelfth Dozen in a Cardboard Box.

REELS.

QUADRUPLE MULTIPLYING.



LEADER.

Round Discs; White Balance Handle; Screwed, Brass, Nickel Plated; Brass Pinions; Patent Adjustable Slide Drag and Click; Knurled Finish; Screw-off Oil Caps, Solid Cross Plate; Width of Spool 1⅝ in.

Nos.	44	40	18
Capacity, yds.	80	80	100
Diameter of Plates, in.	2	2¼	2½
Per Dozen	$16.00	18.00	20.00

Weight per Dozen about 4½ lbs.

ECLIPSE.

Round Discs, White Bone Balance Handle, Screwed; Brass, Nickel Plated Steel Pivots; Patent Adjustable Slide Drag and Back Sliding Click; Screw-off Oil Caps; Width of Spool 1⅝ in.

Nos.	1540	1560	1580
Capacity, yds.	40	60	80
Diameter of Plates, in.	2	2¼	2½
Per dozen	$8.50	10.00	12.00

Weight per Dozen about 4½ lbs.

SOUTH BEND ANTI-BACK LASH CASTING.

Best Quality Polished German Silver Solid Frame, Screwed, White Ivoroid Grip Balanced Handle, Special Tool Steel Spool Pinions running in Special Steel Journals, Accurately Ground and Finely Polished, Bushed with Solid Phosphor Bronze; Accurately Adjusted Jeweled Screw-off Oil Caps; Special Hunting Tooth Train Gearing, Cut from Hard-drawn Brass, with Special Tool Steel Pinions; Back Sliding Click; Adjusting Screw on Front Plate to regulate tension of Brake or Anti-Back Lash Device; If desired, a half turn of this Screw releases the Brake and the Reel can then be used and thumbed as an ordinary Reel.

Per Dozen

No. 1151—100 Yds. Capacity; Diameter of Discs 2 in.; Width of Spool 1⅝ in. $120.00

Weight per Dozen about 7½ lbs.

ALL METAL "TAKAPART;" FREE SPOOL.

Same as No. MT80, except that it is fitted with an AUTOMATIC FREE SPOOL which allows the Spool to revolve while the Handle and Gears remain stationary. THE SPOOL IS ALWAYS FREE TO REVOLVE as there are no Levers to turn as is the case in all other Free Spool Reels.

No. MTF80—80 to 100 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1⅝ in. Weight per dozen about 6 lbs. ..... Per Dozen, $108.00

ALL METAL "TAKAPART."

German Silver Discs, Ivory Balance Handle; Frame and Reel Seat made of One Piece Drawn Seamless Brass Tubing, Nickel Plated; Spool is made with Brass Shaft; Can be readily Taken Apart by Unscrewing the Metal Bands at either end of Reel; Regular Click, which has a Soft or Light Tension when Reeling in the Line.

No. MT80—80 to 100 Yards Capacity; Diameter of Plates 2 in., Width of Spool 1⅝ in.; Weight per dozen about 6 lbs. ..... Per Dozen, $72.00

One-Twelfth Dozen in a Cardboard Box.

REELS.

MEEK.

QUADRUPLE MULTIPLYING.

BLUE GRASS.

Best German Silver of a Rich Sterling Color; Genuine Ivory Balance Handle; Screwed; Screw-off Oil Caps, Improved Drag and Click. Width of Spool 1⅝ in. Perfect in Every Detail.

PLAIN BEARINGS

	Per Dozen
No. B3—Capacity 80 yards; Diameter of Plates 2 in.; Weight each about 11 oz.	$288.00

JEWELED BEARINGS.

No. B3J Capacity 80 yards; Diameter of Plates 2 in.; Weight each about 11 oz. Per Dozen.	$384.00

One-twelfth Dozen in a Cardboard Box.

IMPROVED BLUE GRASS SIMPLEX.

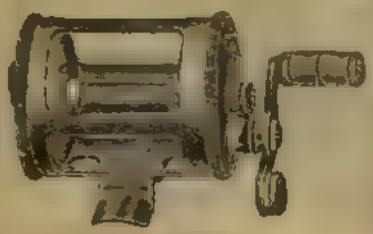
MEEK

Best German Silver, Satin Finish; Ivory Balance Handle, Brass and Steel Spiral Gear and Pinion; To Take Apart Unscrew the Handle Nut Found at Left End of Frame.

No. B2S—80 YARDS Capacity; Diameter of Plates 1⅞ in.; Width of Spool 1⅝ in. Weight per dozen about 10 lbs. ..... Per Dozen $192.00

MEEK.

BLUE GRASS SIMPLEX.



Reel Complete

Sectional View.

All Parts Accessible; Easy to Keep Clean, Easy to Oil; Without the use of any Tool whatever, the whole Reel can be taken apart for Cleaning and Oiling; Simply Unscrew the Retaining Cap at Left End of Frame; Simple, Perfect in Mechanical Construction; Ivory Balance Handle; Brass and German Silver, Nickel Plated.

	Per Dozen
No. B3S—80 YARDS Capacity, Diameter of Plates 1⅞ in.; Width of Spool 1⅝ in; Weight each about 11 oz.	$144.00

One-twelfth Dozen in a Cardboard Box.

By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date and hold your trade at home.

REELS.

QUADRUPLE MULTIPLYING.

‡ MEEK.

GERMAN SILVER.

Quadruple Multiplying, German Silver, Ivory Handle; Spiral Gear Automatic Click and Drag, perfect and substantial throughout. Balance Handle.

PLAIN BEARINGS

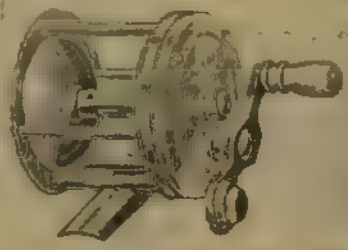
Nos.	‡M20	‡M30	‡M40
Capacity, yards	60	80	100
Diameter Plates, inches	1¾	2	2¼
Length Spool, inches	1⅝	1½	1⅝
Per dozen	$409.20	499.20	537.60

JEWELED BEARINGS

Nos.	‡M20J	‡M30J	‡M40J
Capacity, yards	60	80	100
Diameter Plates inches	1¾	2	2¼
Length Spool, inches	1⅝	1½	1⅝
Per dozen	$614.40	614.40	652.80

DOUBLE MULTIPLYING.

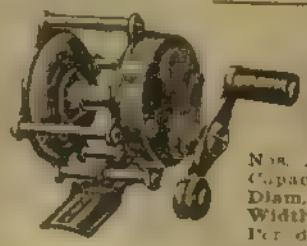
DUPLEX BASS.



High Grade Round Disc Pattern, Ivory Balance Handle; Screwed, Brass, Nicely Nickel Plated and Polished, with Brass Pivots Sliding Drag and Click; Screw-off Oil Caps; Knurled Finish Solid Cross Plate. Width of Spool 1⅝ in.

PLAIN BEARINGS.

Nos.	DB60	DB80	DB100
Capacity, yards	60	80	100
Diameter of Discs, inches	2	2¼	2½
Weight per dozen about, lbs	5½	6	6¾
Per Dozen	$14.00	16.00	18.00

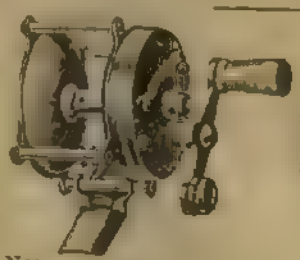


Raised Pillars, BLACK BUTT R BALANCE HANDLE, Screwed BRASS, POLISHED, Patent Adjustable Slide Drag and Back Sliding Click

Nos.	540	560	580
Capacity, yds	40	60	80
Diam. Plates, in.	2	2¼	2½
Width Spool, in.	1	1	1
Per dozen	$7.30	8.00	9.50

Raised Pillars WHITE BONE BALANCE HANDLE, Screwed BRASS NICKEL PLATED, Patent Adjustable Side Drag and Back Sliding Click Screw-off Oil Caps

Nos.	640	660	680	6100
Capacity, yards	40	60	80	100
Diameter of Plates, inches	2	2¼	2½	2¾
Width of Spool, inches	1	1	1	1⅛
Per dozen	$8.00	9.00	10.20	12.00



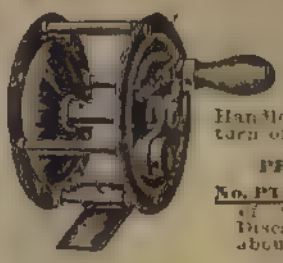
Raised Pillars; WHITE BONE BALANCE HANDLE Screwed, BRASS NICKEL PLATED, Patent Adjustable Back Sliding Click and Drag, SCREW-OFF OIL CAPS, WITH RUBY SETTING.

Nos.	640R	660R	680R	6100R
Capacity, yards	40	60	80	100
Diameter of Plates, inches	2	2¼	2½	2¾
Width of Spool, inches	1	1	1	1⅛
Per dozen	$14.50	15.50	16.50	19.00

One-twelfth Dozen in a Cardboard Box.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

REELS.



SINGLE ACTION.

A Light Bass or Trout Reel; Nickel Plated; Bushed Bearings; Screw Oil Caps; Back Sliding Click; Ivory Balance Handle; quickly taken apart by a turn of Eccentric Screw on Rear Disc.

PREMIER, QUICK-A-PART.

No. PT60—60 Yards Capacity; Width of Spool 1¼ in.; Diameter of Discs 2¼ in.; Weight per dozen about 4 lbs.....Per Dozen, $24.00

‡THE WEEK TROUT REEL

German Silver, Single Action Back Sliding Click, Safety Bands, Ivory Handle, Small and Light enough to balance with the Light Trout Rod.

Per Dozen

‡No. W44—60 Yards Capacity; Diameter of Plates 2¼ in.; Weight each about 11 ozs.....$192.00

‡No. W44J—60 Yards Capacity; Diameter of Plates 2¼ in.; Jeweled; Weight each about 11 ozs.....$240.00

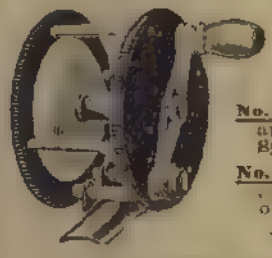
Round Disc Pattern, Screwed; Hard Rubber; Nickel Plated; With Bushed Bearings; With Click; Black Wood Handles.

Per Dozen

No. 440—40 Yards Capacity; Diameter of Plates, 2 in.; Width of Spoon 1 in.....$12.00

No. 460—60 Yards Capacity. Diameter of Plates 2¼ in.; Width of Spool 1 in.....13.20

Weight per Dozen about 4 lbs



Black Hard Rubber, Round Discs, Extra Fine Quality; White Bone Balance Handle, Screwed; Back Sliding Click; Bushed Bearings

Per Dozen

No. 840—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.....$12.20

No. 860—60 Yards Capacity; Diameter of Plates 2¼ in.; Width of Spool 1¼ in.....13.00

Weight per Dozen about 4 lbs.

One-twelfth Dozen in a Cardboard Box

Raised Pillars, Riveted; Solid Discs, Black Wood Handle; Width of Spool 1 in.

BRASS POLISHED.

Nos.	125	140	160
Capacity, yards	25	40	60
Diam. of Plates, in.	1¾	2	2¼
Per dozen	$2.00	2.30	2.80

BRASS, POLISHED; WITH CLICK.

Nos.	225	240	260
Capacity, yards	25	40	60
Diam. of Plates, in.	1¾	2	2¼
Per dozen	$2.30	2.80	3.00

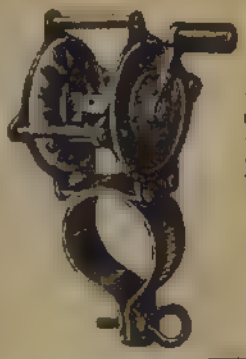
BRASS, NICKEL PLATED; WITH CLICK.

Nos.	325	340	360
Capacity, yards	25	40	60
Diameter of Plates, inches	1¾	2	2¼
Per dozen	$2.70	3.00	3.50

One-half Dozen in a Cardboard Box;

Weight per Dozen about 4 lbs.

REELS.



SINGLE ACTION.

Raised Pillars, Riveted; With Ring Clamp, for attaching to Rods not having Reel Seats; Black Wood Handles

No. 140½—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.; Brass Polished.....Per Dozen, $4.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 4 lbs.

Raised Pillars, Riveted; Brass, Polished; Perforated Discs; Black Wood Handles.

Per Dozen

No. 040—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.....$2.00

No. 040C—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.; WITH CLICK..... 2.00

One Dozen in a Cardboard Box; Weight per Dozen about 4 lbs.

MEISSELBACH.

Frame and Reel Seat Stamped out of One Piece of Brass; Removable Spool; Steel Click.

NICKEL PLATED.

Nos.	25	26
Capacity, yards	40	60
Diameter Plates, inches	1¾	2¼
Width Spool, inches	⅝	⅝
Weight per doz. about, lbs.	2¼	2¼
Per doz.	$16.00	19.00

No. 260—BLACK FINISH; 60 YARDS Capacity; Diameter of Plates 2¼ in.; Width of Spool ⅝ in.; Weight per dozen about 2¼ lbs.....Per Dozen, $19.00

MEISSELBACH.

Brass, Nickel Plated; Ball Bearing Detachable Spool; New Style Sliding Click

	(Trout)	(Bass)
Nos.	10	17
Capacity, yds.	40	100
Dia. Plates, in.	2¼	3
Width, Spool, in.	⅝	1
Wgt. doz., lbs.	3	6
Per dozen	$28.80	36.00

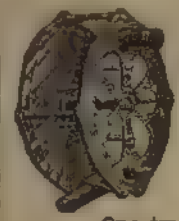
MEISSELBACH; FEATHERLIGHT.

Removable Spool and Back Sliding Steel Click, For Trout.

BRASS, NICKEL PLATED.

Nos.	270	280
Capacity, yards	60	80
Diameter Plates, in.	2¼	2¾
Width Spool, inches	¾	1
Weight per doz. lbs.	3	3¾
Per dozen	$28.80	28.80

No. 270B BLACK FINISH 80 Yards Capacity, Diameter of Plates 2¼ in.; Width of Spool 1 in.; Weight per dozen about 3¾ lbs.....Per Dozen, $28.80



MEISSELBACH; ALL RIGHT.

Brass, Nickel Plated; Removable Spool and Back Sliding Steel Click.

Per Dozen

No. 120—80 YARDS Capacity; Diameter of Plates 2¾ in.; Width of Spool 1 in., For Bass Fishing. Weight per dozen about 4½ lbs.....$28.80

One-twelfth Dozen in a Cardboard Box.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE

This sectional cut shows the action of both Cold and Hot Air as it passes through the SIMMONS Liberty Lantern in its course of Generating Gas and Perfect Combustion, by which a Perfect White Flame is obtained.

The Draft from the Top of the Lantern draws the Cold Air (which is indicated by the heavy arrows) in at the Top of the Tubes between the Windbreak. Inside the Dome and the Outer Casing of the Dome, and down into the Burner Chamber and through the Perforated Plate in the Burner, there Mixing with the Hot Air, which Creates a Perfect Combustion of Gas, and then is Burnt with the Flame, making it a Perfect Light, Free from all Smoke or Gas Fumes, and then goes on up to the Dome as Hot Air (indicated by the light arrows) which passes out beneath the Dome Plate.

This same Draft also draws just enough Cold Air through the Globe Plate to keep the Globe Cool at all times. The Air drawn in at this point passes up between the Outside of Flame and the Inner Wall of Globe so that it cannot become too hot.

Made of Heavy IX Tin, Smoothly Finished and Heavily Tinned; All Joints securely Soldered; Side Tubes Double Seamed and Reinforced; All Edges Hemmed, leaving no Sharp Edges Anywhere; Heavy Dome Top with Incurled Edge formed to throw off Water, fitted with Heavy Wire Lifting Ring.

SIMMONS Liberty Lanterns are made throughout from the Best Materials Obtainable, and contain many desirable features impossible to get in other makes, many of which are Patented.

CAN BE FILLED, LIGHTED AND REGULATED WITHOUT REMOVING THE GLOBE.

WIND RESISTING QUALITIES ON SIMMONS LIBERTY COLD BLAST LANTERNS:—The SIMMONS Liberty Cold Blast Lantern is equipped with a Patent Windbreak on the Inside of Dome; Wherever it is possible for Air to enter the Lantern we have carefully guarded the Entrance so the Draft cannot reach the Flame and extinguish it. The Perforations in the Globe Plate are Horizontal, which deflects the Cold Air from the Burner and keeps the Globe Cool, thus preventing Breakage and at the same time supplying Sufficient Oxygen to produce a perfect Flame. The Perforations in the Inner Cylinder above the Globe and the Opening under the Dome Top are for the escape of Heat and burnt Oxygen.

No Draft can enter at these points, as the pressure on the inside caused by the Heat is sufficient to prevent this; consequently, the only way Air can reach the Burner is by passing between the Windbreak and the Outside Cylinder, then through the Air Tubes and into the Air Chamber, through the fine perforated Burner Gallery and then to the Light.

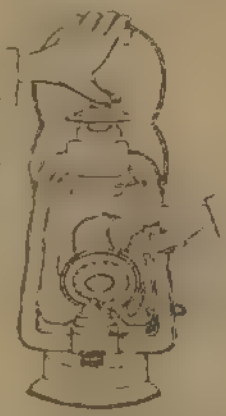
THE GLOBE LIFTING DEVICE:—This is one of the most important features on a Lantern; Owing to the fact that the Globe is lifted every time the Lantern is lighted it is necessary to have a very substantial arrangement in order to do the work required of it in a satisfactory manner; The Lifting Device used on SIMMONS Liberty Lanterns is Simple and Positive. Set in behind the Air Tube, it is never in the way and does not catch into Obstacles; It is made of Tinned Wire, Heavy and Tough, with just enough Elasticity in it to perform the duty for which it is intended. The Ends pass through Holes pierced into Air Tubes, and is so shaped in the center that by pushing the Lever back it operates on a Semi-circular Device with Locking Arrangement which elevates the Globe and Plate a considerable distance above the Burner Cone, giving free access to the Wick for lighting. There is nothing to get out of order and will always do the work required quickly and accurately.

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE

THE SELF-STANDING BAIL:—The Handle or Bail is made of Heavy Spring Steel Wire and is inserted into two Holes on Side of Air Tubes near the Top, which are fitted with Brass Eyelets, above this Hole on one Side of the Lantern a Wire Lock-Ear is attached which holds the Bail in an Upright Position when the Lantern is set down, can also be thrown down with perfect ease if desired so it will be out of the way, and will also come back to a Standing Position by simply getting hold of it and lifting the Lantern. It is high above the Dome and is spread into a wide Circle, providing plenty of room for the Arm.



THE SAFETY GLOBE TILTING DEVICE:—The SIMMONS Liberty Lanterns are all fitted with Heavy Wire Globe Clamps which Securely Grip the Globe so that it can be tilted over without danger of dropping the Globe from the Lantern; this Clamp also acts as a Guard to the Globe, and is crimped around the Globe Plate, which greatly adds to its strength.

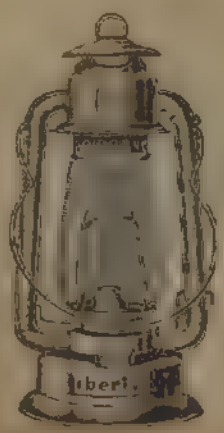
THE GLOBES used on all SIMMONS Liberty Lanterns are made from Best Quality Flint Glass. They are Strong, White and Very Clear; They ARE NOT EASILY BROKEN. Will withstand sudden Changes of Temperature, Snow, Rain, etc., without Damage. The Edges are Carefully Ground and they fit perfectly.

THE BOTTOMS on all SIMMONS Liberty Lanterns are Extra Heavy and Concaved, making them Perfectly Rigid. They are very large in Diameter and are not easily tipped over; The Founts have Large Capacity.

THE FILLER CAPS:—The Threaded Filler Caps are made of Solid Brass and are fitted with Thick Fibre Washers; Wide Mouth Opening, 1 in. in Diameter.

THE BURNERS are made of Heavy Tinned Steel, making them Strong and Rigid; Burner Cones are made of One Piece of Metal with Smooth Friction Seat, making a Positive Connection which cannot fall off and yet is easy to remove.

ALL SIMMONS LIBERTY LANTERNS ARE FURNISHED WITH WICK FITTED TO THE BURNER READY FOR USE.



COLD BLAST

EXTRA LARGE FOUNT.

Large Tubes; Safety Inside Side Lift; No. 3 Cold Blast Tubular Tinned STEEL BURNER and 1 in. Wick, No. 2L/CB Liberty Cold Blast Globe; Diameter of Base 7¼ in.; 10 Gauge Steel Wire Bail.

Oil Pot Capacity 1 Quart; Height with Bail down, 15½ in.

Holds Sufficient Oil to Burn about 32 Hours.

Per Dozen

No. 551/2—HEAVY TIN, BRIGHT FINISH $16.50

One-half Dozen in a Case; Weight per Dozen about 52 lbs.

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE

Can be Filled, Lighted and Regulated without Removing the Globe.

COLD BLAST

Large Round Tubes; Safety Inside Side Lift; No 2 Cold Blast Tubular Tinned STEEL BURNER and 1 in. Wick; No. 2L/CB Liberty Cold Blast Globe; Diameter of Base 6⅛ in.; 10 Gauge Steel Wire Bail.

Oil Pot Capacity 1¾ Pints; Height with Bail down 15¾ in.

Holds Sufficient Oil to Burn 20 to 23 Hours.

Per Dozen

No. 550 2—HEAVY TIN, BRIGHT FINISH $14.00

No. 553 2—HEAVY TIN; TOP FLAME, SIDE TUBES AND FOUNT ENAMELED IN A BEAUTIFUL SHADE OF RED, Baked on at a High Degree of Heat $16.50

One-half Dozen in a Case; Weight per Dozen about 60 lbs.

LANTERN ASSORTMENT.

Per Assortment

No. 5300—ASSORTMENT; Consists of Six Lanterns; Heavy Tin; Enameled in Color as Below. $9.00

1—Olive Green Fount and Outside Top Cylinder; Orange Tubes.

1—Olive Green Fount and Outside Top Cylinder; Vermilion Red Tubes.

1—Light Yellow Fount and Outside Top Cylinder; Orange Tubes.

1—Orange Fount and Outside Top Cylinder; Light Yellow Tubes.

1—Red Fount, Outside Top Cylinder and Tubes.

1—Red Fount, Blue Outside Top Cylinder and White Tubes.

SOLD ONLY IN FULL ASSORTMENTS

One Assortment in a Case; Weight per Assortment about 25 lbs

Large Round Tubes; Safety Inside Side Lift; No 2 Cold Blast Tubular BRASS BURNER and 1 in. Wick; No 2L/CB Liberty Cold Blast Globe; 10 Gauge Steel Wire Bail; Diameter of Base 6⅛ in.; Height with Bail down 15¾ in.

Holds Sufficient Oil to Burn 20 to 23 Hours.

Per Dozen

No. 580 2—HEAVY BRIGHT TIN FRAME, POLISHED COPPER FOUNT; Weight per dozen about $24.00

No. 583 2—HEAVY TIN FRAME, RED ENAMELED; POLISHED COPPER FOUNT; Weight per dozen about 64 lbs.....$26.00

One Dozen in a Case.

SIMMONS LIBERTY*, PET.

Large Round Tubes, Safety Inside Side Lift; No. DJ Liberty Cold Blast Globe; Oil Pot Capacity 1 Pint; Diameter of Base 5⅛ in.; 10 Gauge Steel Wire Bail; Height with Bail down 12¾ in.

Holds Sufficient Oil to Burn about 17 Hours

Per Dozen

No. 650 1T—HEAVY TIN, BRIGHT FINISH; No. 1 Cold Blast Tubular TINNED STEEL BURNER and ⅝ in. Wick $13.00

No. 650 1B—HEAVY BRASS, SATIN FINISH; No. 1 Cold Blast Tubular BRASS BURNER and ⅝ in. Wick $3.00

No. 650 1N—HEAVY TIN, WITH NICKEL PLATED FOUNT AND HIGHLY POLISHED Frame; No. 1 Cold Blast Tubular Tinned STEEL BURNER and ⅝ in. Wick $20.50

One Dozen in a Case; Weight per Dozen about 38 lbs.

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE.

Can be Filled, Lighted and Regulated without Removing the Globe.

COLD BLAST—DASH.

HEAVY TIN; Large Round Tubes; Safety Inside Side Lift; No 1 Cold Blast Tubular Tinned Steel Burner and ⅝ in. Wick; No. DJ Liberty Cold Blast Globe with Bull's Eye; Oil Pot Capacity 1 Pint; Diameter of Base 5⅛ in.; 10 Gauge Steel Wire Bail; Height with Bail Down 12¾ in.; Bright Tin Reflector with Red Glass Lens, 3 in. in Diameter. Reflector is fitted with a Hole so that Lantern can be hung up on a Nail or Hook.

Holds Sufficient Oil to Burn 17 Hours.

Per Dozen

No. 651 S—DOUBLE ATTACHMENT; Black Japanned Flat Steel Hook 1¼ in Wide, which can be Fastened to the Front or Side Board of a Wagon with Three Nails or Screws; also fitted with a Spring Side Clamp; Wgt per doz. abt. 48 lbs. $25.00

Per Dozen.

No. 651D—TRIPLE ATTACHMENT; Black Japanned Leather Lined Clamp Attachment for Dash which Fastens with Two Wing Nuts; 1¼ in Wide Flat Steel Hook for Front or Side Board, fastens with Three Nails or Screws; Spring Side Clamp; Weight per doz. about 50 lbs..... $26.00

One Dozen in a Case.

DASH BOARD ATTACHMENT AND REFLECTOR; Large Round Tubes; Safety Inside Side Lift; No. 2 Cold Blast Tubular Tinned Steel Burner and 1 in Wick; No 2L/CBE Liberty Cold Blast Globe with Bull's Eye; Oil Pot Capacity 1¾ Pints; Diameter of Base 6⅛ in.; 10 Gauge Steel Wire Bail, Height with Bail down 15¾ in.

Holds Sufficient Oil to Burn 20 to 23 Hours.

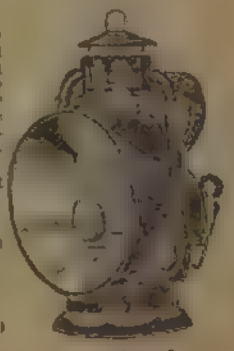
Per Dozen

No. 570 2—HEAVY TIN, RED JAPANNED; Weight per dozen about 62 lbs..... $22.50

One-half Dozen in a Case.

COLD BLAST

DASH, INSPECTORS AND BARN.



HEAVY TIN, BRIGHT; Large Round Tubes; Round Reflector Hood 7 in. Diameter, 6 in Deep, furnished with 4 in. Silvered Glass Removable Reflector, securely Clamped in Rear of Hood. Fitted in Rear with Large Carrying Handle and Spring Dashboard Clamp; No 1 Cold Blast Tubular Tinned Steel Burner and ⅝ in Wick; No. DJ Liberty Cold Blast Globe with 1⅞ in Bull's Eye.

Holds Sufficient Oil to Burn 32 Hours. Per Dozen

No. 590 1—Capacity 1 Pint; Diameter of Base 5⅛ in.; 10 Gauge Steel Wire Bail; Height with Bail down 12¾ in., Weight per dozen about 75 lbs.....$27.50

One-quarter Dozen in a Case.

Per Dozen

No. 4—Extra Silvered Glass Reflectors, 4 in., for 590/1 Lanterns. Weight per Dozen about 3 lbs. $3.20

Packed Loose.

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE.

Can be Filled, Lighted and Regulated without Removing the Globe.

HOT BLAST.

Made of Heavy IX Tin, Smoothly Finished and Heavily Tinned; All Joints Securely Soldered; Side Tubes Double Seamed and Reinforced; All Edges Hemmed, leaving no Sharp Edges Anywhere.

The Burners are made of Heavy Material, making them Strong and Rigid; Burner Cones are made of One Piece of Metal with Smooth Friction Seat, making a Positive Connection which cannot fall off and yet easy to remove.

The Threaded Filler Caps are made of Solid Brass and are fitted with Thick Fibre Washers; Wide Mouth Opening, 1 in. in Diameter

HEAVY, TIN, BRIGHT; Large Round Tubes; Safety Inside Side Lift; No. 1 Tubular Tinned Steel Burner with ⅞ in. Wick; No. 0L Liberty Globe; Oil Pot Capacity 1 Pint; Diameter of Base 5⅝ in.; 10 Gauge Steel Wire Bail.

Holds Sufficient Oil to Burn 33 to 35 Hours.

Per Dozen

No. 505 0—Height with Bail Down 13 in.; Weight per dozen about 35 lbs. $9.50

One Dozen in a Case.

Large Round Tubes; Oil Pot Capacity 1 Pint; Diameter of Base 5⅝ in.; 10 Gauge Steel Wire Bail; Height with Bail Down 13 in.

Per Dozen

No. 500 0—HEAVY TIN, BRIGHT, WITH No. 0L LIBERTY GLOBE, No. 1 Tubular Tinned Steel Burner with ⅞ in. Wick; Weight per dozen about 31 lbs. $8.80

No. 501/0R—HEAVY TIN, PAINTED RED; WITH No. 0R RUBY GLOBE; No. 1 Tubular Tinned Steel Burner with ⅞ in. Wick Weight per dozen about 32 lbs. .$8.50

One Dozen in a Case.

Square Pattern Tubular, No. 00 Size; Heavy Tin, Bright, Safety Inside Side Lift, Equipped with Wire Globe Guard and 10 Gauge Bright Steel Wire Bail; No. 0 Tinned Steel Tubular Burner with ⅞ in. Wick; No. 00 Tubular Globe; Oil Pot Capacity 1 Pint; Diameter of Base 6⅝ in.; Height with Bail Down 11 in.

Holds Sufficient Oil to Burn 28 to 25 Hours.

Per Dozen

No. 409 0—Weight per dozen about 28 lbs. $7.70

One Dozen in a Case.

DASH BOARD ATTACHMENT AND REFLECTOR; Safety Inside Side Lift; No. 1 Tubular Tinned Steel Burner with ⅞ in. Wick; No. 0BE Liberty Globe with Bull's Eye; Oil Pot Capacity 1 Pint, Diameter of Base 5⅝ in.; Height with Bail Down 13 in.

Per Dozen

No. 520 0D—HEAVY TIN, BLUE JAPANNED $16.50

No. 520 0HR—HEAVY TIN, RED JAPANNED 16.50

One Dozen in a Case; Weight per Dozen about 50 lbs

LANTERNS.

SIMMONS LIBERTY*—TUBULAR.

FOR KEROSENE.

Can be Filled, Lighted and Regulated without Removing the Globe

Heavy Tin, Bright; Large Oval Tubes; No. 1 Brass Tubular Burner, with Corrugated Cone, and ⅞ in. Wick; No. 0L Liberty Globe. Oil Pot Capacity 1 Pint. Diameter of Base 6 in.; No. 10 Gauge Polished Steel Wire Bail, 6 in. in Diameter

Canopy made Rigid by Side Wire Supports, Soldered to Air Tubes and Extending to Front of Globes to Brace the Upright Globe Guard. Globe Guard Fastened to Perforated Tin Globe Plate by Turning over the Edge, Extends in an Upright Position in Front and Rear and around half the Top Bead of Globe and Fastened by Friction on the Side of Globe, Holding it Securely in Position on the Perforated Globe Plate when it is Tilted Back for Lighting; Horizontal Guard Encircles Entire Globe, Fastened to Upright Guards with Stamped Steel Clips, and Soldered.

HEAVY WIRE TILTING DEVICE is securely Soldered to the under side of Perforated Globe Plate and Fits over the Side of Fount and Locks Securely on a Lug soldered to the Side of the Oil Pot

Holds Sufficient Oil to Burn 22 to 25 Hours

Per Dozen

No. 503 0—Height, with Bail Down, 14 in.; Weight per dozen about 32 lbs. $8.50

One Dozen in a Case.

HAM'S NU-STYLE—COLD BLAST.

MADE OF HEAVY POLISHED TIN; Extension Fount with Concaved Bottom, and Screw Cap ⅞ in in Diameter, with Pressed Paper Washer; Round Tubes, Double Seamed and Beaded, Perforated Double Lock Ratchet Burner, with Brass Wick Tube; Stamped Tinned Steel Burner Cone, securely fastened to Perforated Globe Plate, is lifted whenever the Globe is tilted, giving free access to Wick. Low Pattern Clear Glass Globe has Extra Large Opening at Top making it easy to Clean 12 Gauge Steel Wire Globe Clamps, Globe Canopy fitted with 10 Gauge Steel Wire Lifting Device; Seamless Top stamped from One Piece of Tin, 10 Gauge Steel Wire Self-Standing Bail.

The Low Pattern Globe on this Lantern reaches as high as the Air Circulation inside the Globe, keeps the Globe Cool and eliminates Breakage by Heat.

Per Dozen

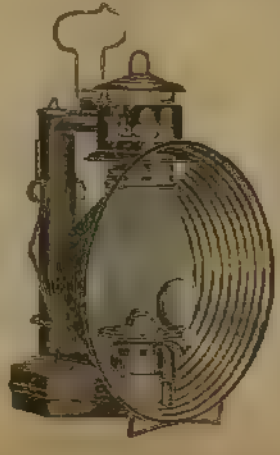
No. HNS 2—Oil Pot Capacity 1½ Pints; Height with Bail down 13¾ in.; No. ONS Nu-Style Cold Blast Globe; 1 in. Wick; Weight per dozen about 40 lbs $17.50

One Dozen in a Case.

SEARCHLIGHT LANTERNS.

SIMMONS LIBERTY*.

FOR KEROSENE



IX TIN ENAMELED BRIGHT RED; No. 2/CBS Cold Blast Globe, with Bull's Eye; No. 2 Cold Blast Tinned Steel Burner; No. 2, 1 in. Flat Wick; Cold Blast Principle; The Air is Supplied to Burner through Tubes in the Rear and is Wind-proof. Can be Filled, Lighted, Regulated and Extinguished without Removing the Globe; Fitted with a Special Globe Lifting Device, Oil Pot Capacity 1¼ Quarts; Height over all 16 in.

Holds Sufficient Oil to Burn 40 Hours.

Per Dozen

No. 140 CR—Corrugated Bright Tin Hood Reflector, 11½ in. Diameter; Wire Bail Fitted with Spring Dash Board Clamp.....$42.00

One-quarter Dozen in a Case; Weight per Dozen about 80 lbs.

WAFFLE IRONS

NEW ERA

Black Japanned

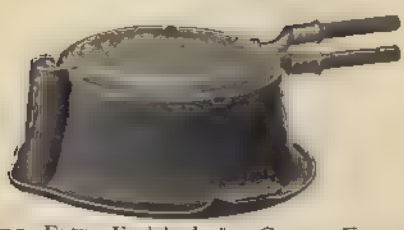
Nos.	8–9
Fits Stove Nos	8–9
Each	$1.10

AMERICAN

Regular Style, Extra Finished

Nos.	7	8
Diameter of Pan, Inches.	6 ¾	7 ¾
Diameter Bottom of Ring In	8 ¼	9 ⅞
Weight Per Dozen, Lbs.	72	102
Each	$1 40	1 50

AMERICAN



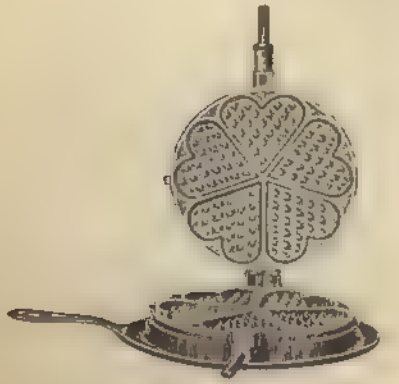
Deep Ring, Extra Finished, for Gas or Vapor Stove

No.	8D
Diameter of Pan, Inches.	7 ¾
Weight Per Dozen, Lbs.	126
Each	$2 00

"American" Pattern, Deep, Extra Finished

No.	11
Size of Pan, Inches.	6 ¾ x 6 ¾
Size of Cake, Inches.	3 ¼ x 3 ¼
Size of Frame, Inches.	10x10
Weight Per Dozen, Lbs.	120
Each	$1.80

HEART SHAPED



Heart Shaped, Black Japanned

	Each
No. 1—Low Rim, Patent Greaseduct, Detachable Joint	$1 70

Weight Each 8 Pounds

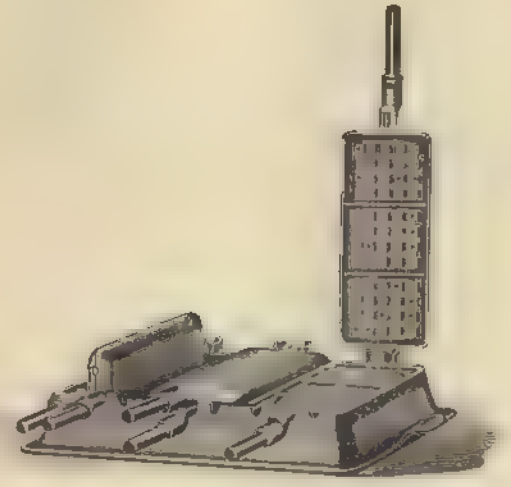
Heart Shaped, Black Japanned

	Each
No. 2—High Rim, Patent Greaseduct, Detachable Joint	$2 00

Weight Each 10 Pounds

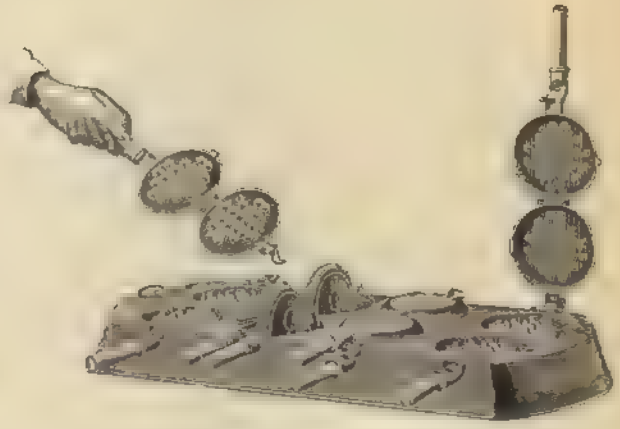
WAFFLE IRONS

AMERICAN



Extra Finished

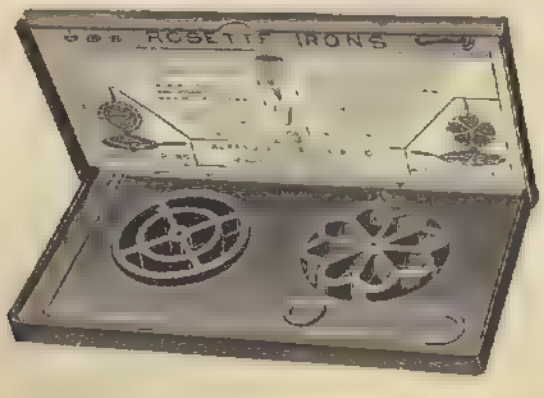
Nos.	12	18
Number of Pans	2	3
Pans, Inches	9½x4	9½x4
Cake, Inches	3x4	3x4
Frame, Inches	11x12	15x12
Wt Per Dozen, Lbs	168	200
Per Dozen	$27.00	40.50
Each	2.70	4.50



French Pattern, Extra Finished

No.	8F
Pairs of Pans	3
Diameter of Pan, Inches	4
Length of Frame, Inches	20
Width of Frame, Inches	11½
Weight Per Dozen, Lbs	300
Per Dozen	$45 50
Each	4 00

ROSETTE WAFER IRONS

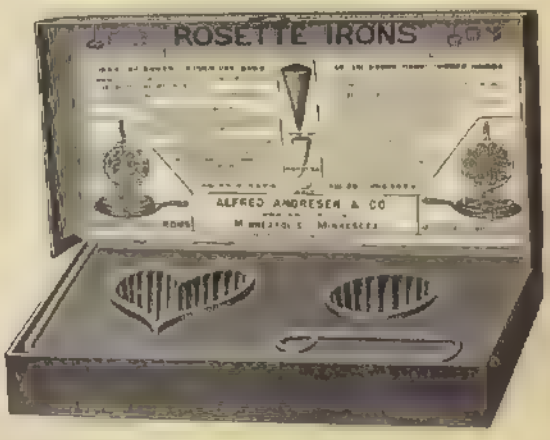


Per Set

No. 10 Cast Iron Bent Wire Handle, Always Cool. Complete Set One Handle and Two Moulds $1.70

Weight Per Dozen Sets 16 Pounds

ROSETTE PATTY IRONS



Per Set

No 13 Cast Iron Bent Wire Handle Complete Set One Handle and Two Moulds $1 70

Weight Per Dozen Sets 16 Pounds

HUEY & PHILP HARDWARE COMPANY.

ICE CREAM CONE BAKERS

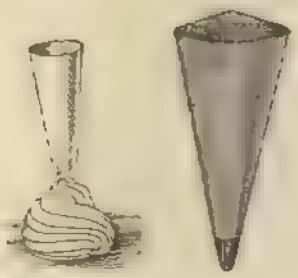
Wooden Cone

High Grade Polished Iron

No.	EZ
Weight Per Dozen, Lbs	140
Each	$4 00

This Cone Baker makes a regulation size of cones and can be used by persons doing a small ice cream business or for family or church fairs. A wooden cone for rolling the wafers on is furnished with each iron, and also a recipe for making the batter

ROSETTE PASTRY BAG AND TUBE



Per Dozen

No. 5—Clean Moistureproof Rubber Bag and Tin Tubes for Decorating..... $2.00

CAKE AND PATTY MOULDS

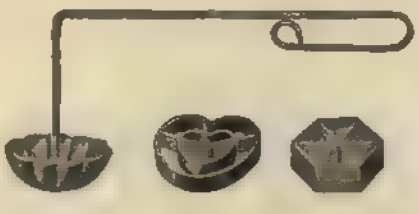
SHALLOW

Per Set

No. 1 —Shallow Style, Cast Iron, Set Consists of Two Moulds and Wire Handle, in Neat Display Box $1.00

Weight Per Dozen Sets 12 Pounds

SWEDISH



Per Set

Swedish—Cast Aluminum Set Consists of Three Moulds: One Each Heart and Hexagon Shape, 3 in. Diameter, One Fluted, 2¾ in Diameter, Complete in Box.....$2.50

Weight Per Dozen Sets 10 Pounds

TIMBALE IRONS

Nickel Plated Head and Shank, Wood Handle

	Per Dozen
Fluted Heart—Weight Per Dozen 18 Lbs	$1 70
Fluted Diamond—Weight Per Dozen 17 Lbs	1 70
Fluted Club—Weight Per Dozen 17 Lbs	1.70
Fluted Spade—Weight Per Dozen 18 Lbs	1.70

THE NULITE GASOLINE LIGHTING SYSTEM

Cheapest and Best Artificial Light

The Nulite Hollow Wire Gasoline Lighting System has been on the market for nearly a quarter of a century. There are more of this style of gasoline lamps in use than any other that has ever been made. The reason for their popularity is that they are made on a principle that is absolutely right in every detail. The very best of material is used in their construction and the men who have charge of the assembling, testing and repairing these lamps are men who have had ten to twenty-five years of experience in this business. The Nulite System is superior to electricity or gas because the light is better and the cost is only about one-tenth the cost of gas or electricity. These lamps are safe, convenient, reliable and satisfying. It is a brilliant ornament that attracts business and adds cheer wherever they are used. The light produced is even cheaper than kerosene oil. Besides, there are no dirty wicks and chimneys to clean. No smoke and no smell.

Shopping can be done satisfactorily at night or on dark days where these systems are installed, as colors can be matched under the Nulite System as well as by daylight. Good store lighting is a business necessity and economy not a luxury. Other things being equal, it is a bright cheerful store that is best patronized. Thus, the Nulite System, by their great brilliance and pleasing effectiveness, are sure to pay for themselves in increased advertising and increased trade and profits in a very few months, to say nothing of the great saving in expense.

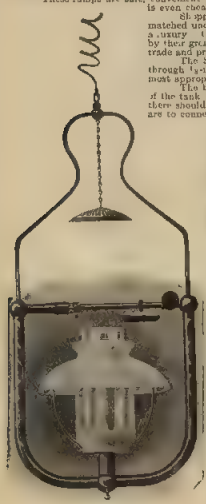
The System is absolutely safe, as the gasoline can be stored outside the building and conveyed to the lamps through ¼-inch hollow wire. All lamps are made of the best grade of seamless brass tubing of heavy gauge after the most approved pattern.

The hollow wire system consists of a tank with pump, gauge and fittings, all of which are included in the price of the tank. In addition to this there is hollow wire and connections. Hollow wire is figured at so much per foot and there should be figured on each of eight system besides the wire lamps and tank equipment two nuts and jams which are to connect the wire to the lamp and tank. For each additional lamp added to the one-light system, one tee and four nuts and jams would be figured in addition to the amount of additional wire.

The most easy way to figure the cost of one of these systems is to draw a sketch of the way the system would be installed in the room showing the position of the tank and drawing a line representing the wire from the tank to the first lamp and from the first lamp to the second and second to the third lamp. Then mark on the lines the number of feet between each connection. For instance the number of feet between the tank and the first lamp and the distance between the first and second lamp, second and third and so on to the end of the system. Also mark length of drops. That is, if the lamp is to hang more than 24 inches from the ceiling drop wire should be figured. This wire is a part of the regular system wire.

We recommend that a tank of a larger capacity be used in every case as it is more economical. One to six gallons of one to five lights the five gallon tank can be used. On a system of from five to twenty lights the ten gallon tank is recommended. On systems requiring more than twenty lamps it is advisable to use two tanks.

In sending in orders for systems be sure and send a sketch such as described above. We will then make all connections at the factory and ship the system to you ready to install. The only tools that will be required are a wrench and hammer.



NULITE SYSTEM LAMP No. 6. 600 C. P.

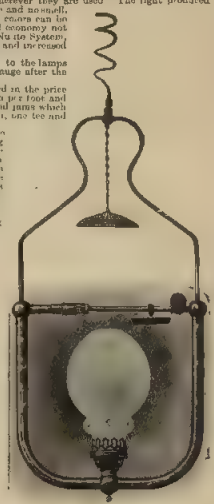
Finished in oxidized copper, lacquered. Heavy brass arms, independent cut off valve, special Nulite generator, fitted with 8 inch opal dome shade, No. 634 chimney, special No. 6 burner.

Total length 24 inches, spread of arms 9½ inches.

Price, lamp complete..... $15.35

This tank is made of heavy galvanized rolled steel. Is tested many times with the pressure required. These tanks will last a lifetime. The price of each tank includes gauge and all necessary fittings and pump.

10 gallon tank and pump, complete.....price $30.00
5 gallon tank, complete.....price 22.35



NULITE SYSTEM LAMP No. 6A 600 C. P.

Finished in oxidized copper, lacquered. Heavy brass arms, independent cut off valve, special Nulite generator, QG opal globe and gallery burner.

Total length 24 inches. Spread of arms 9½ inches.

Price, lamp only, complete..... $13.35

PRICES ON COMPLETE SYSTEMS

No. 6 or 6A Nulite System made up ready to install	$39.70
Each additional No. 6 or 6A with 25 feet of additional wire, one tee and 4 nuts and jams	17.70
No. 42 Nulite indoor lamp, complete with 5 gallon tank, 25 feet wire and connections	42.85
Each additional No. 42 lamp with 25 feet additional wire and connections	21.85
No. 43 Nulite Outdoor Lamp complete with 5 gallon tank, 25 feet wire and connections	43.55
Each additional No. 43 lamp with 25 feet wire and connections	24.85
No. 2 hollow wire, ¼-inch, per foot	.10
Tee connections, each	.50
4-way cross connections, each	1.50
Nuts and jams, per pair	.35
Nulite No. 1 System mantles for any of the above lamps ... per doz.	8.00
QG globes, shown on No. 6A lamp	10.00
No. 634 chimney, shown on No. 6 lamp	6.15
No. 427 clear globe for No. 43 lamp	26.00
Nulite dome shades shown on No. 6 lamp	6.85
No. 64 burner	2.00
No. 6 burner	2.00
No. 42 and 43 burner	2.00

No. 42 SYSTEM LAMP. 600 C. P.

Finished in oxidized copper, lacquered. Heavy brass arms, independent cut off valve, special cleaning needle valve and self cleaning generator.

Total length 21½ inches, spread of arms 10¾ inches.

Price..... $17.50

No. 43 OUT DOOR LAMP. 600 C. P.

Finished in oxidized copper, lacquered. Heavy brass arms, independent cut off valve, special cleaning valve and self cleaning generator; spun brass hood, stack and shade, protected generator tubing and air intake.

Total length, 23⅜ inches, spread of arms, 12½ inches.

Price..... $22.50

THE AIR-LIGHT GAS SYSTEM.

No. 57—1000 Candle Power.

No. 57 fixture is not only superior to other fixtures in design and finish, but the manner in which it is constructed will protect the mantle so as to give double the service and nearly double the light from same. This fixture is constructed entirely of brass, highly polished and finished in antique copper, unless otherwise specified. Has a drop of 30 inches; the globe being 8 inches in diameter and will develop full 1000 C. P. light.

Four of these No. 57 lamps will light a room 30 ft. wide, 100 ft. long, brilliantly at a cost of about 4 cents per hour.

No. 102 1000 Candle Power.

A very handsome fixture for halls, stores, churches, etc. Chandeliers of 2, 3, 4, 5 or 6 lights furnished in this design if desired. Five hundred C. P. per mantle at cost of less than ½ cent per hour. One of these two light fixtures will brilliantly illuminate a space 30 feet square. Length 34 inches over all.

No. 56 1000 Candle Power.

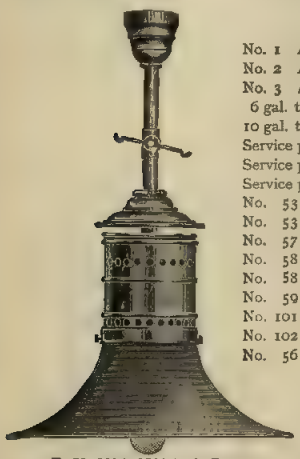
Outside Air Light System Fixtures.

The above fixture No. 56, is especially designed for outside use on the Air-Light System. Will develop 1000 candle power, standard length being 34 inches. Size of globe 10x10 inches.

Every merchant should have one or two of these wonderful lamps outside of his store. It will do more to attract attention and draw trade in one night than a month's advertising in the local paper. It is a beautiful fixture and an ornament to any building.

PRICES.

No. 1	Air-Light generator 1 to 6 mantles	$42.00
No. 2	Air-Light generator 1 to 12 mantles	48.85
No. 3	Air-Light generator 2 to 20 mantles	56.00
	6 gal. tank with pump, fittings and 10 ft. wire	28.35
	10 gal. tank with pump, fittings and 10 ft. wire	33.35
	Service piping, fitted per foot	.40
	Service piping, fittings, per pair	.65
	Service pipe tees, ells, drops, etc., each	.85
No.	53 lamp, 500 C. P	10.50
No.	53 lamp, 1000 C. P	14.00
No.	57 lamp, 1000 C. P	21.00
No.	58 lamp, 500 C. P	14.00
No.	58 lamp, 1000 C. P	17.15
No.	59 lamp, 1500 C. P	21.00
No.	101 lamp, 500 C. P	10.15
No.	102 lamp, 1000 C. P	21.00
No.	56 outside lamp, 1000 C. P	31.50



No. 58—500 to 1500 Candle Power.

No. 58 fixture is made to operate with one, two and three mantles. Is constructed entirely of brass, finely finished and plated in antique copper, standard length being 30 inches. It can be supplied any length desired and develops its full candle power with the least consumption of gas.

An Air-Light Gas System in a store, will more than pay for itself in a week in advertising, increased trade and profits.

No business man can afford to pay exorbitant prices for gas or electricity when by investing from $25.00 to $50.00, he can have a gas plant of his own. Don't wait. Order today. You are losing money every day you delay.

No. 101 500 Candle Power.

This lamp can be used to an advantage in every building. Just the thing for show windows, over desks in residences for all kinds of business houses. Length 34 inches.

They throw the light down where you want it. Absolutely shadowless, pleasing to the eye, satisfactory to the highest degree.

A High Grade Thoroughly Reliable Inverted System Lamp for General Use

No. 240
Inverted Hollow Wire System
Lamp 800 C. P.
Price $30.00

The No. 240 Nulite Inverted Lamp has been in use for more than four years and has proven itself to be the best, most reliable and most durable inverted hollow wire lamp ever devised. Its construction and principle of operation is very similar to the old style harp shaped upright lamps which have proven so successful, and it has the added advantage of being inverted. From one to ten lamps can be used on a system from the same tank with entire satisfaction.

No. 240	Complete One Light Inverted System, with 5 gallon tank, 25 feet hollow wire and connections ready to install	$ 46.35
No. 240	Inverted System, 2 Lights, complete with 5 gallon tank, 50 feet of hollow wire and connections	70.75
No. 240	Inverted System, 3 Lights, complete with 5 gallon tank, 75 feet of hollow wire and connections	95.10
No. 240	Inverted System, 4 Lights, complete with 5 gallon tank, 100 feet of hollow wire and connections	119.45
No. 240	Inverted System, 5 Lights, complete with 5 gallon tank, 125 feet of hollow wire and connections	143.85
No. 240	Inverted System, 6 Lights, complete with 5 gallon tank, 150 feet of hollow wire and connections	168.20

GASOLINE LAMPS

PRICES EACH.

The No. 200 lamp operates on the Nulite Hollow Wire System shown on the preceding pages or on any hollow wire system. Operating on from 15 to 125 pounds of pressure. It is equipped with a quick lighting, self-cleaning, adjustable generator, the construction of which allows the regulation of the light from 50 to 500 C. P. as desired. It is artistically designed and the handiest lamp to take care of that is on the market at the present time. It is a distinct improvement over all hollow wire system lamps for residence lighting as it lights quickly and easily. Is very handsomely finished in oxidized copper and equipped with extension tubing, canopy and crow foot shown in cut. Stock height 30 inches over all. It is a success in every detail and when installed in the average home or farm house makes for cheerfulness and contentment. The homes equipped with these lamps can be lighted better than houses using gas or electricity at a cost of 1-5 to 1-10 as much.

It is economical and efficient and absolutely reliable, operated entirely from the floor.

Price, complete as shown	$30.00
Price, complete with 5 gallon tank, pump and 25 feet of wire and connections	46.35
Each additional lamp, No. 200, and 25 feet of wire and connections	24.35
Mantles for No. 200 lamp, per dozen	3.00
QC globes, per dozen	10.00

No. 200
Nulite Special
500 C. P.

NULITE PORTABLE TABLE LAMP

Five to seven hours on one pint of gasoline. The Nulite Table Lamp is so constructed that it can be handled very roughly without damage. It can be turned upside down and rolled on the floor without danger of affecting the light. The best material obtainable is used in its construction. It is carefully tested and inspected in actual operation before being shipped. The fuel is ordinary gasoline, the same as used in automobiles, stoves and gasoline systems.

The light produced is clear, white and penetrating. The lamp is simplicity in itself in construction and operation. A child of ordinary intelligence can operate and handle it with perfect safety and satisfaction. The lamp is entirely self-contained and portable and can be carried from one room to another, thus making it very attractive for home lighting, as with this lamp you can have a beautiful light in any room in the house where you need it and yet have only one lamp in operation.

The selling possibilities of this lamp are tremendous. One of them placed on exhibition in the average store is sure to excite interest and make immediate sale. They are being used in city homes and farm houses, stores, halls and churches, hotels, offices, hospitals and house boats. Thousands of these are in use and the owners are enthusiastic in their praise of the lamp.

Nulite Portable Table Lamp, complete	$20.00
Mantles for Nulite Table Lamp, per dozen	4.15
Opal Dome Shades for Nulite Table Lamp	20.00

Jeffery Changes Models and Nameplate

TWO new cars, a "Four" and a "Six," which will bear the name "Jeffery" instead of Rambler, will be produced by the Thos. B. Jeffery Company, Kenosha, Wis., as its 1914 offering to the trade.

The Jeffery Four is built in accordance with the latest European and American practice, but sold at a low figure—$1550. This chassis can be provided with five different body styles, including a standard five-passenger car at $1550, a two-passenger roadster at $1550, a two passenger Coupelette enclosed inside drive at $1950, a four passenger Sedan enclosed inside drive at $2350 and a five-passenger limousine at $3000.

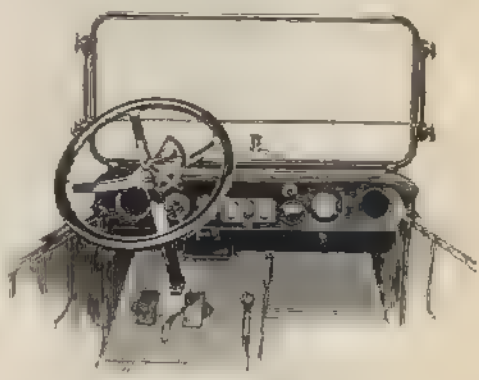
The Motor.

The high-speed mono-bloc motor is compact and simple. It develops, the manufacturer says, at 2200 r. p. m., 40 h. p. The cylinders are formed in one solid casting, together with the valve seats and water jackets. The reciprocating parts of the motor are made as light as possible, and consistent with strength.

The crank shaft is 2 in. in diameter at the smallest point and is suspended in three unusually large bearings, the front and center bearings being 3¼ in. each and the rear one 4½ in. The connecting rod bearings are 2 by 2½ in.

The oiling system is a combination of the internal force feed and constant level splash system. A reservoir under the crank case contains the supply of oil. From there it is pumped through a tube extending the entire length of the crank case with lateral connections leading directly to each main bearing and to each cam shaft bearing. Any surplus to the bearing drips into small pans directly under the connecting rods. An open end tube projects from the connecting rod and leads to the connecting rod bearing. At each revolution of the crank shaft this tube dips into the pan and forces sufficient oil directly to the connecting rod bearing for lubrication. There is a constant circulation of oil directly to and through every bearing in this motor by means of a pump driven from the cam shaft.

The electric starting and lighting system is the U. S. L. It is made by the United States Light and Heating Company. This device supplies current for starting of the motor and for lighting of the lamps. The radiator, with the combined cooling system, holds five and one-half gallons of water and has over 10,000 sq. in. of cooling surface. Circulation is by centrifugal pump. A special bracket is fitted on the crank case to attach a power tire pump.

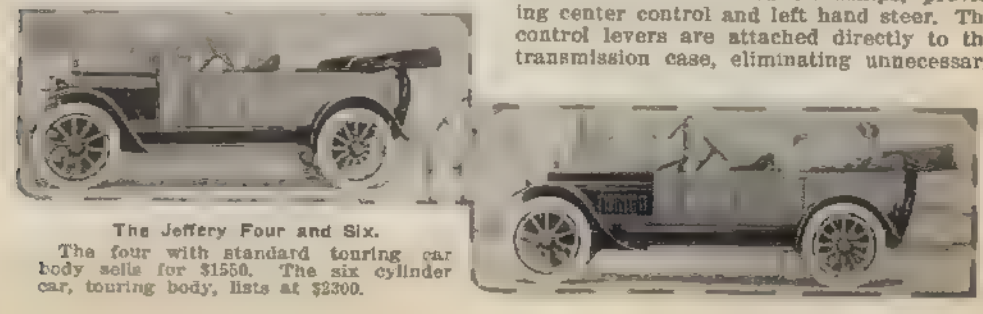


Dash of the Jeffery Four.
All attachments are set flush. Two compartments are provided for valuables.

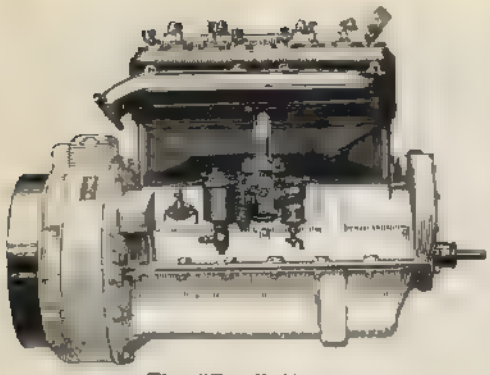
Clutch and Transmission.

The clutch is the cone type, leather faced with spring inserts and operated on a swinging cross arm, which keeps the clutch vertical on its compression and release movements. Between the clutch and the four-speed transmission there is a Daimler flexible leather coupling.

The transmission has four speeds forward and one reverse and in its entirety with operating levers and shift rods, weighs less than 100 lbs. The transmission case is solidly bolted to two cross members of the frame and located amidships, providing center control and left hand steer. The control levers are attached directly to the transmission case, eliminating unnecessary



The Jeffery Four and Six.
The four with standard touring car body sells for $1550. The six cylinder car, touring body, lists at $2300.



The "Four" Motor.
It is a high speed mono-bloc.

parts, danger of misalignment and incorrect engagement. The transmission shafts are of vanadium steel hung in five imported annular ball bearings

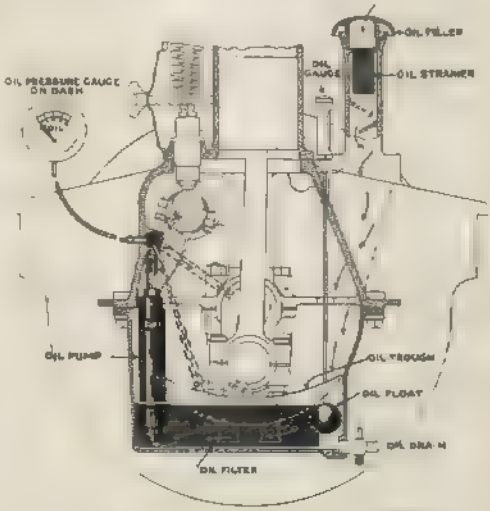
Drive.

Spicer universals are used between the transmission and the rear axle. Made of chrome nickel steel, vanadium treated, these joints are fully housed and lubricated and are light and durable. The rear axle is of the full floating type on imported annular ball bearings. The front axle is constructed of vanadium steel.

Body.

The body is Rothschild design and constructed of stamp metal. The doors are 23½ in. wide. There is a foot rest and a dash replete with Stewart-Warner speedometer and ammeter illuminated with a dash electric light, a pressure pump for the gasoline and oil tanks, a light switch and coil switch, a button for the electric horn and two compartments for valuables. The hinges on the door are of the invisible type. The back of the front seat is finished in leather. The rain vision glass front is of special design. A pressure feed gasoline tank equipped with gasoline gage is carried behind on a direct extension of the frame members. The pressure pump is operated from the cam shaft and provides 2 lbs. constant pressure of the tank, insuring an even flow up hill or down. An auxiliary pressure pump is located on the dash, both for oil and air emergency. The same support carries the extra rim and tire.

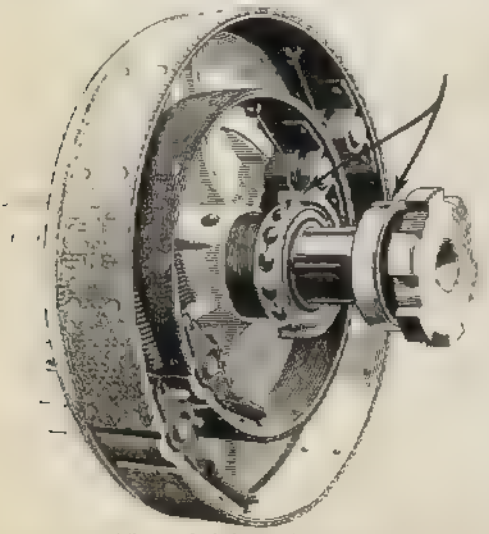
The electric light switch attachment is a simple arrangement by which the lights can be dimmed at any time for city driving and the control is such that it conserves the strength of the battery. There are four



Sectional View of Jeffery Oiling System.

positions to this switch; the first is the off position; the second, side lights, dash and rear are lighted. The third position, headlights are bright, dash and rear on, side lights out. Fourth position, headlights dim, dash and rear on. The rear light cannot be turned off at the switch. The system is the same on the Six, except in this case the dash light is controlled by the switch. This light switch can be locked in any position so that the car can safely be left at the curb without fear of any one tampering with the lights. The Solar lamps are provided with a dimmer which can be regulated from the seat to meet all regulations.

There are two sets of brakes, a service and an emergency brake, each of internal expanding type. This eliminates rattling and unnecessary parts and keeps them free from dust, grit and mud. Owing to the compactness of this car, the wheel base has been made 116 in. with 34 x 4 in. wheels, equipped with demountable rims. Hung, as this car is, in a narrow frame, short turning



View of Jeffery Brakes.
Both brakes are internal expanding. Note the ball bearings.

space is provided. It will turn in a forty-two ft. circle. The springs are of vanadium steel, 2 in. wide and 50 in. long, scientifically treated.

The Six.

The Jeffery Six is a duplicate of the Jeffery Four, except for size, and the cylinders are cast in pairs instead of en bloc. This car, which sells at $2300, was built for the man who prefers a car of this type. The actual scale weight is 3700 lbs. with full equipment.

The horse power is rated by the manufacturers at 48. The motor is 3¾ x 5½ in. with extra large bearings. There is a Bosch Duplex ignition, Rayfield carburetor, imported annular ball bearings throughout, four forward speed transmission, U. S. L. starting and lighting system, Warner speedometer, power tire pump, wheels and tires 36 x 4½ in., wheelbase 128 in., demountable rims, Rothschild body with extra wide doors and low deep seats, pressure feed gasoline tank, and full floating rear axle with imported annular ball bearings.

The Jeffery Six chassis can be provided with five different styles of bodies, including five-passenger touring car at $2250, six passenger touring car at $2300, a two-passenger Roadster at $2250, five-passenger Sedan enclosed inside drive at $3250 and a five-passenger Limousine at $3950.

Four Oakland Chasses for 1914

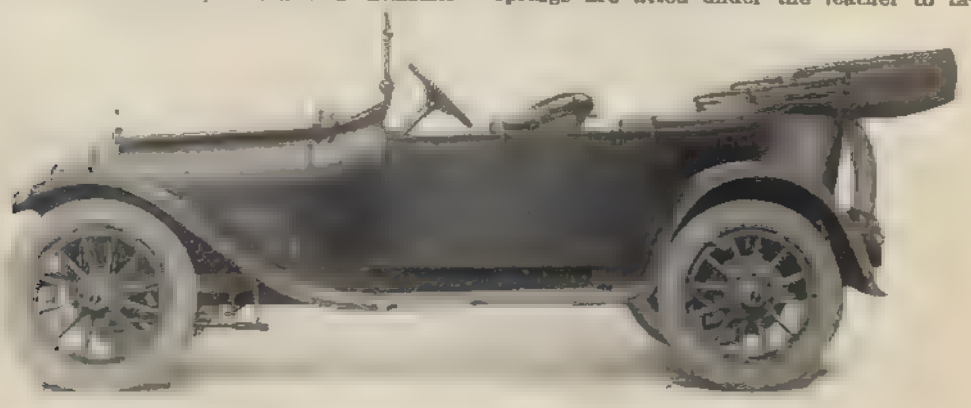
FOR 1914 the Oakland Motor Car Company, of Pontiac, Mich., will place before the trade a line consisting of four chasses—models 6-60 and 6-48, both six cylinder machines; and models 43 and 36, both four-cylinder machines. Model 6-60 will be fitted with three bodies—a four-passenger close-coupled touring car, a five-passenger touring car, and a seven-passenger touring car. A five-passenger touring body will be fitted on the 6-48 chassis. On the model 43 and 36 chasses, besides the regular touring and roadster bodies there will be fitted two special bodies—a four-passenger Sedan body and a new type to be known as the "Cabriolet," which is a coupe with sides collapsing somewhat in the manner of a landaulet. Both bodies are herewith illustrated.

Model 6-60.

This model is the largest and is fitted with a six-cylinder motor, with cylinders cast in pairs, 4½ in. bore and 4¾ in. stroke. The motor, clutch and transmission form a three-point suspended unit. The valves are interchangeable, all on the left side and enclosed by dust-proof covers. They are 1¾ in. in diameter. The cam and magneto shafts are silent chain driven. A model "B" 1½ in. double jet Stromberg carburetor is fitted, with hot air pipe and dash adjustment. The lubrication is provided for by a pump driven from the cam shaft, and feeding oil through grooves to the bearings. Further lubrication is effected by the splash system, sight feed being fitted on the dash. The crank shaft is four bearing type with special Babbitt bearings of liberal dimensions. A centrifugal pump on the magneto shaft is used for circulating the water through a large-proportioned cooling system, and V-shaped German silver radiator with large cooling surface. The Delco system of electric starting, lighting and ignition, of latest design is fitted as standard equipment.

Clutch, Transmission and Drive.

A large cone type clutch is used, leather faced, with large bearing surface. Six springs are fitted under the leather to fa-



The 6-48 Touring Car.

This is of the same design and finish as the bodies fitted on the other chasses. All models have electric lighting, starting and ignition and the German silver "V" radiator. This car is listed at $1785.

Swift Complete Car, with Folding Rear Seat
OLYMPIA
SHOW
A Small Belgian Landaulette, with Pressed Steel Sankey Detachable Wheels
Prince Henry 25 H. P. Vauxhall Type, Fitted with Leicester-de-Luxe Body
An example of graceful lines

The British Olympia Show

By Our Foreign Correspondent

AT the British Show at Olympia, broadly speaking, there was little news. The advent of the light car was almost the only general note of distinctiveness for the year. The development of this type is somewhat bound up with that of the cyclecar, but only examples of the former were shown, these, in general ranging from $750 to $1000. Influences of last year were emphasized, and it was the degree of emphasis which constituted the main features of the Show.

Car Lighting by Electricity.

Among the more accentuated tendencies was that towards car lighting by electricity; indeed, the number and variety of dynamo equipments constituted the chief feature of the 1913 display, and these, like power starters for engines, are being introduced as separate self-contained adjuncts by accessory manufacturers. Practically all of them work in conjunction with a battery, and taken all round, the mechanical cutout seems being superseded by an electrical arrangement which maintains constant output by electrical means, usually by a shunt-winding. This is frequently arranged so as to actively assist the series windings of the magnetic field at low speeds until the speed is such that the required output can be obtained without their help. As the speed still further rises, an increasing current is passed through the shunt so as to have on the magnetic field an opposite effect to that exercised by the series winding; thus the effect of high speed is neutralized.

When Doctors Differ.

But the lighting proposition is very much bound up with that of the self-starter. In Europe the electric starter is at present almost the only one that counts. The S. C. A. T. car, exhibited by Newton and Bennett; the Sunbeam and the Wolseley are practically the only ones starting on compressed air, the latter depending on air pressure in the cylinders under the regulation of a distributing valve, while in the Sunbeam the crank shaft is rotated by a little separate three-cylinder compressed air engine, geared down to drive a gear on the flywheel. The acetylene starter never has obtained any hold over here. There are, however, a few ignition devices for firing any gases that may remain in the cylinders from last time of using. In some cases, such arrangements make use of a battery in connection with the magneto armature windings, but the latest development consists of a hand-operated magneto with suitable connections

The combination of electrical engine starter and lighting equipment offers a fine example of the differences of the doctors, for while on the one hand we have apparatus like the T. A. T. obviously designed by electrical engineers with a thorough grip of their own subject and of automobile requirements, on the other, we find the opinion of a firm like Rushmore Lamps, Ltd., who have had 25 years' experience in electrical illumination, embodied in separate machines.

Some Notes on Engine Starters.

Most of the electrical starters drive by a pinion on the armature shaft working in mesh with a gear ring on the periphery of the engine flywheel, and some of the means by which they are brought into action are very ingenious. In the T. A. T., for instance, as soon as current is switched on a solenoid reduction locks an epicyclic gear through which the armature shaft drives, but as soon as the engine starts and the electric motor is relieved of load, the field so weakens that it can no longer hold the brake of the epicyclic gear in action. In another, the Rushmore, the armature shaft and pinion can be slid endways. As soon, therefore, as current is switched on, the armature slowly rotates, and at the same time is solenoid—drawn into mesh with the gear ring on the flywheel. The reduction is such, however, that should the engine get well under way before the motor disengages, the latter's speed would be so enormous as to cause grave risk. Consequently, as soon as ever the engine starts and the speed of the starting motor increases, the magnetic field weakens and the armature shaft and pinion, no longer held by the solenoid, is forced endways out of action by a spring, before the engine can gather real speed.

Of mechanical starters, in which the stored energy of a compressed spring is used, there were to be seen a few examples at moderate prices, and one, exhibited by Reynold R. Jackson, displayed a happy idea, for by its means the driver starts his engine by the act of getting into the car. Such an arrangement, however, unless very carefully designed, seems to have the rather dangerous possibilities of cars being started unintentionally, although the difficulty is certainly far from insuperable.

Slide Valve Engines.

Sliding valves of one type or another are slowly but steadily growing in favor. Siddeley-Deasy and German are both fitting the well-known Knight double sleeve type of engine, besides those firms like the Rover Company, that have already adopted it for some time. Then, too, the single rotary-sliding valve, introduced some two years ago by Argyle Motor is being used on the latest Swiss made Piccard-Pictet models; the Maudslay Company are supplying a Reno type piston valve engine as an alternative to their overhead poppet valve design, while on the Magic car we see another slide valve engine under the Mustad Fischer patents.

Transmission Tendencies and Possibilities.

The double geared axle drive on the Cadillac by which the three changes of the gear box can afford six speeds at the back axle, is better known on your side than in Europe, but possibly over here it may have a direct bearing on the bevel v. worm drive controversy, and accentuate the tendency of British designers to reduce the sizes of their gear boxes to a minimum, and to incorporate them in the back axle. For British roads a two-speed gear box with the double geared drive with the back axle would probably give all that is required, and be very compact.

There is a tendency to treat the transmission on certain British cars as a distinct unit separable from the rest in the case of repairs. We see this in the new 20 h. p. Daimler and the 14-20 Siddeley-Deasy. In the former the gear box is comprised in the axle casing. The outer ends of the axle are stayed by two triangulating strut tubes, the front ends of which abut against the tubular casing of the propeller shaft. The spherical joint at the front end of the latter fits into a hole flanged through a cross member of the frame, just behind the clutch, and here the tail end of the clutch shaft is also supported. Axle, gear box and propeller shaft tube are all easily removable in one. In the Siddeley-Deasy new design the same principle is observed, but in this case the gear box is in the usual position just behind the clutch.

Concerning Control.

In a conservative country like Britain, it is extraordinary how hard custom dies. To suit the rule of the road, the driver sits on the right-hand side, and it has been customary to place the change speed and brake levers to his right. This was well enough in the old days, but with the introduction of side doors these levers were found badly in way of the body builder. Yet they still continue, although there is a tendency, imported from your side, to place these levers where they ought to be—in the middle of the car—and thus render it possible for the driver to reach his seat from the door on his own side.

Attention is called to the Benz steering, the feature of which is that the axes of the stub axles are placed slightly behind the axes of the pivots on which they turn. Consequently, the front wheels have somewhat of a trailing or castor action that certainly makes the steering quite exceptionally easy.

An Evolution in Appearance.

In general appearance cars are undergoing a transformation. The V-type radiator, originally introduced on the Metallurgique and the Prince Henry type with tapered bonnet, are rapidly supplanting the flat-fronted radiators hitherto fashionable. The tapered bonnet, too, has, of course, had a very powerful influence on the general design, and to it, more than anything else, we owe the possibilities of the scuttle dash and the stream-line form of body with its lines gradually merging into those of the bonnet. Judging by present signs, the car of the future will be round-nosed, and in plan rather pear-shaped at the front.

Freaks.

In body work the British exhibition constituted a great contrast to the recent Paris Salon show, for in the former the freak body was very little in evidence, if we except one or two boat-shaped, boat-built bodies imported from the Paris Salon. In the latter, in the form of the boat-shaped body, it was the feature of the display.

Comparing this year's London Show with that of 1912, there is not much difference, a little more appreciation of modern tendencies, and consequently attempts to harmonize the body work with the distinctive design of radiator and bonnet, greater refinement of line and a wider adoption of the all-flush side. In the larger covered cars there was, if anything, slightly more luxurious fittings here and there, but like the chassis, car fitting is rapidly reaching the point where improvements become few and far between.

Tendencies and Points in Body Work.

Yet there were certain new features of note in a body by Mulliner's, Ltd., which can be converted from an ordinary landaulette into a salon body, while A. C. Penman was showing a circular fronted torpedo landaulette body in which the head folds on a new principle to avoid weight behind. This body, mounted on a 30-40 h. p. Wolseley chassis, seats 3 at the back, 2 on the folding seats, and 2 on the front seat.

Another new feature was seen in the disappearing seat at the back of an all-weather body shown by Salmons & Sons. This, when not required, slides into the back of the body and is invisible.

More and more is the inadequate protection of the hind dicky seat of the ordinary three-seater been recognized, and several attempts to bring the back seat within the hood, or extend the hood backwards as well as forwards, have recently appeared. But there is also another tendency—to do away with the dicky and to widen the front seat to accommodate three. A good example of this was to be seen in the exhibit of Phoenix Motors, and provided the seat is brought far enough back to compensate for the loss of the dicky seat, this seems to the writer a distinct improvement.

Both in cabriolet, landaulette and cape cart hoods, several new designs are in evidence, all having the common object of rendering the hood mechanism capable of being manipulated by a single person.

On the whole, Olympia 1913 was a good and instructive show, but more and more the body is becoming the factor that sells the car. In fact, in this matter a great change is coming over the British buying public, no doubt owing to the increasing and uniform reliability of the mechanism.

LANTERNS

CONQUEST

Per Dozen

No. 17—Conquest, Round Tubular, Retinned, Inside Lift, No. 1 Burner, ⅝ in. Wick, No. 0 Globe.....**$8.00**

Fount holds 1½ pints of oil. Burns 28 hours. Seamless retinned oil well, drawn with its foot from a single piece of steel

Weight Per Dozen 35 Pounds

One Dozen in a Box

VICTOR

Per Dozen

Victor—Square Tubular, Bright Tin, Side Lift, No. 1 Burner, ⅝ in. Wick, No. 0 Plain Globe **$8.50**

Victor Ruby—With No. 0 Ruby Globe, Otherwise Same as Above **12 00**

Gives a light of 4 Candle Power. Fount holds sufficient oil to burn 19 hours.

Weight Per Dozen 36 Pounds

One Dozen in a Box

MONARCH

Per Dozen

Monarch—Round Tubular, Bright Tin, Inside Lift, No. 1 Burner, ⅝ in. Wick, No. 0 Globe..... **$8 50**

Gives a light of 4 Candle Power. Fount holds sufficient oil to burn 19 hours

Weight Per Dozen 35 Pounds

One Dozen in a Box

ROYAL

Per Dozen

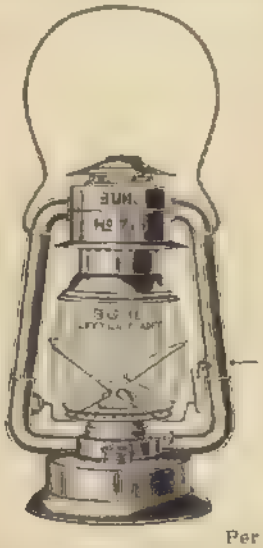
Royal—Round Tubular, Bright Tin, Inside Lift, No. 2 Burner, 1 in. Wick, No 0 Globe **$12.00**

Gives a light of 6 candle power. Fount holds sufficient oil to burn 20 hours.

Weight Per Dozen 39 Pounds

One Dozen in a Box

LITTLE GIANT COLD BLAST



Per Dozen

No. 775—Round Tubular, Retinned Tin Plate, Inside Lever Lift, Seamless Inside Cylinder, Bottom Lift, Dome Shaped Fount, Large Filler, No. 2 Steel C. B Locked Burner, 1 in. Wick, Short Bowl Shaped Globe **$16.50**

Weight Per Dozen 50 Pounds

One-half Dozen in a Box

HURRICANE COLD BLAST

Per Dozen

No. 375—Round Tubular, Extra Quality Tin Plate with Heavy Copper Fount, Buffed to Mirror Finish and Lacquered, Will not Tarnish, Well Domed, Inside Lever Lift, Large Copper Filler, No 2 C. B. Locked Brass Burner, 1 in Wick, No. 0 Cold Blast Globe . . **$15.50**

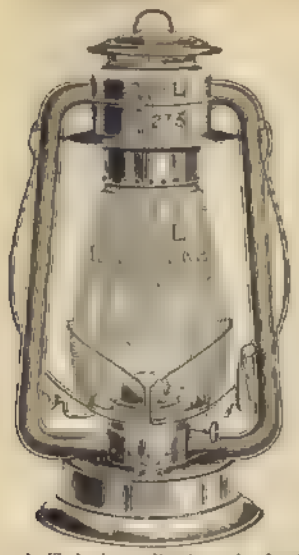
Fount holds 1½ pints of oil. Burns 32 hours

Weight Per Dozen 51 Pounds

One-half Dozen in a Box

LANTERNS

HURRICANE COLD BLAST



Per Dozen

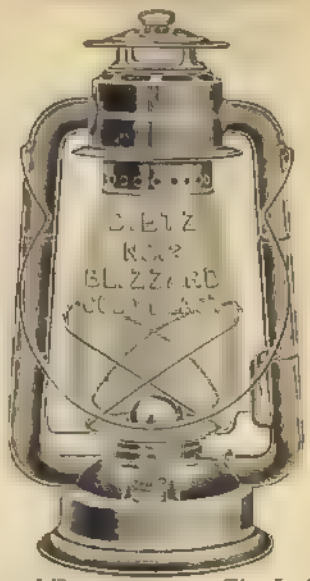
No. 275— Round Tubular, Retinned Inside Lift No. 2 Burner, 1 in. Wick, No. 2 Cold Blast Globe $12.50

Fount holds 1½ pints of oil. Burns 32 hours.

Weight Per Dozen 52 Pounds

One-half Dozen in a Box

BLIZZARD COLD BLAST



Per Dozen

No. 1 —Round Tubular, Bright Tin, Inside Lift, No. 1 Burner, ⅝ in. Wick, No. 2 Cold Blast Globe, Weight Per Dozen 43 Lbs. $13.00

No. 2 —Round Tubular, Bright Tin, Inside Lift, No. 2 Burner, 1 in. Wick, No. 2 Cold Blast Globe, Weight Per Dozen 52 Lbs. 14.50

No. 2CF—With Copper Fount, Otherwise Same as No. 2 ..... 19 00

Fount holds sufficient oil to burn 19 hours. Will give a light of 10 candle power.

No. 1, One Dozen; Nos. 2 and 2CF, One-half Dozen in a Box

D-LITE COLD BLAST

Per Dozen

D-Lite—13 in. High, Round Tubular, Bright Tin, Positive Locking Side Lift, Reinforced Tubes, Metal Globe Hood, Tilting Globe Plate and Exposed Wick Tube, Standing Bail Hooked into Patented Brass Eyelets, Dome Shaped Fount with Double Seamed Solderless Bottom, Extra Large Filler, Cross Wire Guard, No. 3 Burner, 1 in. Wick, Short Bowl Shaped Globe $18 00

Burns perfectly under all weather conditions. Will not smoke or blow out. Fount holds sufficient oil to burn 24 hours.

Weight Per Dozen 45 Pounds

One-half Dozen in a Box

BUCKEYE DASH

Per Dozen

Buckeye—Square Tubular, Blue Japanned, Side Lift, Corrugated Bright Tin Reflector, Bull's Eye Lens Secured to Plate, No. 1 Burner, ⅝ in. Wick, No. 0 Globe, with Spring Dash Clip and Bail.....$13.00

Gives a reflected light of over 10 candle power. Fount holds sufficient oil to burn 19 hours.

Weight Per Dozen 52 Pounds

One-half Dozen in a Box

ECLIPSE DASH

Per Dozen

No. 00D—Round Tubular, Extra Quality Tin Plate, Blue Japanned, Concentric Corrugated Reflector, Well Dome, Inside Lever Lift, Large Filler, No. 1 Locked Steel Burner, ⅝ in. Wick, No. 0 Bull's Eye Globe $13 00

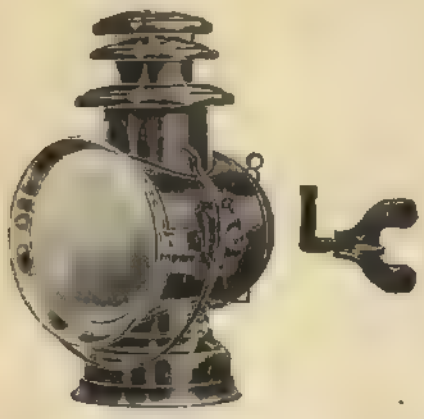
Fount holds 1½ pints of oil. Burns 28 hours

Weight Per Dozen 50 Pounds

One-half Dozen in a Box

LAMPS

DIETZ UNION DRIVING



Each

Dietz Union—11¼ in. High, Heavy Gauge Soft Steel Body, Black Japanned, Removable Aluminum Reflector, Clear Pressed Lead Glass Lens. No. 0 Long Cone Burner, ⅜ in. Wick, Complete with Right or Left Hand Dash Clamp Holder and Bail, Gives a Light of 30 Candle Power, Fount Holds Oil to Burn 10 Hours. **$4.80**

Note—When ordering, always state if wanted for right or left hand side of Vehicle

Weight Per Dozen 70 Pounds
One-half Dozen in a Box

DIETZ ACME CAR INSPECTORS'

Each

Acme—13¾ in. High, Square Tubular, Bright Tin Hood with 5 in. Flat Back, Silvered Glass Reflector, No. 1 Long Cone Burner, ⅝ in. Wick, No. 0 Globe, with Grip Handle and Bail **$2.80**

Reflects over 7 candle power. Fount holds oil to burn 20 hours.

Weight Per Dozen 66 Pounds
One-half Dozen in a Box

LANTERNS

DIETZ VULCAN RAILROAD

Per Dozen

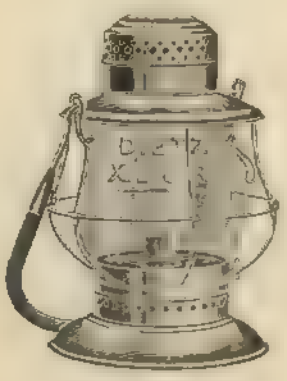
No. 39—10 in. High, Bright Tin, Double Wire Guard Skeleton Wire Bottom, Oil Pot Fastens with Bayonet Catch, No 39 White Globe, with No. 1 Convex Burner for Kerosene **$17 00**

No. 039—With No. 1 Ratchet Burner for Lard Oil, Otherwise Same as Above **17.00**

Weight Per Dozen 47 Pounds
One Dozen in a Box

DIETZ

X. L. C. R. SWITCHMAN'S



For Signal Oil

Per Dozen

X. L. C. R.—10½ in. High, Bright Tin, Wire Guard, Wood Bail, No. 1 Special Ratchet Burner with Outside Wick Raiser, No. 39 White Globe **$28.00**

The wood bail can be made rigid at will. Fount holds sufficient oil to burn 24 hours.

Weight Per Dozen 43 Pounds
One Dozen in a Box

SIDE LAMPS

DIETZ COLD BLAST

Per Dozen

No. 15—14¾ in High, Tin, Blue Japanned, 5 in. Silvered Glass Reflector, No. 1 Burner, ⅝ in. Wick, No. 0 Globe..... **$24.00**

Especially desirable for use in dark halls and shops. Can be lighted and regulated without removing the globe Fount holds oil to burn 23 hours.

Weight Per Dozen 60 Pounds
One-half Dozen in a Box

AUTOMOBILE CLOCKS

FULLY WARRANTED

NEW ORMOND

Heavy Brass Case; Finished in Polished Brass; Nickle Plated or Black Enamel; Fitted with Fine Quick Beat 8 Day time Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial; Height 4 inches; Width 4 inches.

One In A Box:— Weight per Clock 1¾ lbs.

	Each
No. NONP—Nickle Plated Case	$ 8 00
No. NOPB—Polished Brass Case	9 00
No. NOBE—Black Enamel Case	9 00

JERICHO

Light Brass Case; Fnished in Polished Brass; Nickle Plated or Black Enamel Fitted with Fine Quick Beat 8 Day Movement, Heavy Bevel Plate Glass Crystal; 3 inch White Porcelain Dial: Height 4⅜ in., Width 4⅜ inches

One In A Box:— Weight per Clock 2 lbs.

	Each
No. JPN Nickle Plated Case	$9 35
No. JPB—Polished Brass Case	9 35
No. JBE—Black Enamel Case	9 35

AUTOMOBILE WATCHES

DUANE

Light Solid Brass Case, Polished with offset Holding a Complete Watch; One Day Time Movement, Stem Wind and Set; 1¾ in. White Dial, Height 3⅓ inches Width 2⅜ inches.

	Each
No. DUPB	$3 30

One in a box

Weight per clock, ¾ lb.

Heavy Solid Brass Case Polished with offset Holding a Complete Watch; One Day Time, Stem Wind Set; 1¾ inch White Dial; Height 3½ inches; Width 2¾ inches

	Each
No. DEPB	$4 10

One in a box

Weight per clock ¾ lb.

DEVERE

A Card of Directions For Fastening watch to Dash Board, Packed in Each Box.

MOTORCYCLE WATCHES

FIAT

Polished Solid Brass Case, Holding a Complete 1 Day Movement Watch, Stem Wind and Set, 1¾ inch White Dial, Size of Case 2¾ inches in Diameter.

	Each
No. FB	$4 10

One in a box

Weight per Watch ½ lb.

Polished Solid Brass Case, Holding a Complete Watch, 1 Day Time, Stem Wind and Set, 1¾ inch Dial, Height 2¾ inches, Width 2¾ inches.

	Each
No. NB	$4.10

One in a box

Weight per Watch ¾ lb.

NEBO

Fasten to Handle Bars of Motorcycle or Bicycle

"Diamond Edge is a Quality Pledge"

AUTOMOBILE CLOCKS

FULLY WARRANTED

NEW ORMOND

Heavy Brass Case; Finished in Polished Brass; Nickle Plated or Black Enamel; Fitted with Fine Quick Beat 8 Day time Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial; Height 4 inches; Width 4 inches.

One In A Box:— Weight per Clock 1¾ lbs.

	Each
No. NONP—Nickle Plated Case	$ 8 00
No. NOPB—Polished Brass Case	9 00
No. NOBE—Black Enamel Case	9 00

JERICHO

Light Brass Case; Fnished in Polished Brass; Nickle Plated or Black Enamel Fitted with Fine Quick Beat 8 Day Movement, Heavy Bevel Plate Glass Crystal; 3 inch White Porcelain Dial: Height 4⅜ in., Width 4⅜ inches

One In A Box:— Weight per Clock 2 lbs.

	Each
No. JPN Nickle Plated Case	$9 35
No. JPB—Polished Brass Case	9 35
No. JBE—Black Enamel Case	9 35

AUTOMOBILE WATCHES

DUANE

Light Solid Brass Case, Polished with offset Holding a Complete Watch; One Day Time Movement, Stem Wind and Set; 1¾ in. White Dial, Height 3⅓ inches Width 2⅜ inches.

	Each
No. DUPB	$3 30

One in a box

Weight per clock, ¾ lb.

Heavy Solid Brass Case Polished with offset Holding a Complete Watch; One Day Time, Stem Wind Set; 1¾ inch White Dial; Height 3½ inches; Width 2¾ inches

	Each
No. DEPB	$4 10

One in a box

Weight per clock ¾ lb.

DEVERE

A Card of Directions For Fastening watch to Dash Board, Packed in Each Box.

MOTORCYCLE WATCHES

FIAT

Polished Solid Brass Case, Holding a Complete 1 Day Movement Watch, Stem Wind and Set, 1¾ inch White Dial, Size of Case 2¾ inches in Diameter.

	Each
No. FB	$4 10

One in a box

Weight per Watch ½ lb.

Polished Solid Brass Case, Holding a Complete Watch, 1 Day Time, Stem Wind and Set, 1¾ inch Dial, Height 2¾ inches, Width 2¾ inches.

	Each
No. NB	$4.10

One in a box

Weight per Watch ¾ lb.

NEBO

Fasten to Handle Bars of Motorcycle or Bicycle

"Diamond Edge is a Quality Pledge"

COFFEE MILLS.

SIMMONS KOFFEE KRUSHER.

Cast Iron, Painted Red, Blue and Gold Striped, Hardened Cast Grinders With Chain, Thumb Screw Adjustment and Pivoted Cover. Capacity of Hopper 4 ozs., will grind 6 ozs. per minute.

Each

No. 10—SIMMONS' KOFFEE KRUSHER, PLAIN BEARING; with Clamp to fasten to Table; Open Hopper 3½x4 in.; Height over all 11½ in.; Extreme Width 5¼ in.; Weight each about, 6 lbs. $2.70

Six in a Case

Each

No. 11 SIMMONS' KOFFEE KRUSHER, BALL BEARING; with Slide Cover and Drawer, Hardwood Base, 6½ in. square; Hopper 4x4 in.; Height over all 12½ in.; Extreme Width 5 in.; Weight each about, 10 lbs. $4.00

Three in a Case.

Sectional View Showing Grinders and Bearings.

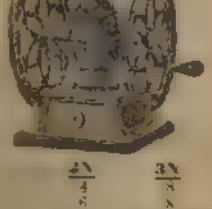
SIMMONS' KOFFEE KRUSHER.

Wheel Pattern; Cast Iron, Painted Blue, Red and Gold Striped, Hardened Cast Grinders; BALL BEARING; with Drawer and Slide Cover to Hopper; Hardwood Base; Thumb Screw Adjustment on side of Wheel.

Nos.	15	17	19
Capacity of Hopper	12 oz.	1 lb.	1½ lbs.
Will Grind per minute	12 oz.	1 lb.	1½ lbs.
Hopper size, inches	3½x3¾	5½x7¼	6½x9
Height over all, inches	12	21	27
Extreme Width, inches	10	13¾	17
Base Board, inches square	7	11	13
Diameter of Wheels, inches	12	17	19
Weight each about, lbs.	4½	7½	13½
Each	$13.50	19.00	28.50

All Koffee Krusher Mills except Nos. [illegible] as fine as may be required. Nos. 15 and 19 have Regular Coffee Grinders only; No. 19 can be furnished with Special Spice Grinders, for Extra Fine Grinding, for shipment from factory

15, 15, One in a Case; 17, 19, One in a Crate.



ENTERPRISE. Wheel Pattern

Cast Iron, Painted Red, Blue and Gold Striped; Hardened Cast Grinders PLAIN BEARING; With Drawer and Slide Cover to Hopper; Hardwood Base; Thumb Screw Adjustment on Side of Wheel.

Nos.	2N	3N
Capacity of Hopper, oz.	4	8
Will Grind, per minute, oz.	8	8
Hopper size, in.	3½x4	3½x5¾
Height, over all, in.	11	17
Extreme Width, in.	5	8
Base Board, inches square	6	8
Diameter of Wheels, inches	7	10
Weight each about, lbs.	3	5½
Each	$7.00	10.00

Enterprise Coffee Mills Nos. 00N, 0N, 1N, 2N and 3N on this page are Pulverizers, and will Grind Coffee, Pepper [illegible]

1N, 2N and 3N, One in a Case; No. 3N Three in a Case.

‡COFFEE MILLS.

ENTERPRISE, LARGE, WHEEL PATTERN, PLAIN BEARING

Cast Iron, Painted Red, Blue and Gold Striped, Hardened Cast Grinders, Tool Proof Guide or Bridge, Fastened by Thumb Nut, Arched base and Removable Painted Tin Scoop or Container, with Hollow Spout Handle; Adjusting Wheel and Sleeve on Axle near Hand Wheel

No. 612

WITH CAST IRON HOPPER AND PIVOTED COVER.

Each

‡No. 612—Capacity of Hopper 2 lbs.; Will Grind a Pound of Coffee in 120 Turns; Hopper 7⅞ in. Diameter; Height over all 31 in.; Diameter of Base 13½ in.; Diameter of Flywheels 17 in.; Weight each about 62 lbs. $26.50

‡No. 712—Capacity of Hopper 3½ lbs.; Will Grind a Pound of Coffee in 75 Turns; Hopper 8⅝ in. Diameter; Height over all 36 in.; Diameter of Base 15½ in.; Diameter of Flywheels 19 in.; Weight each about 99 lbs. $31.50

Packed in One Crate and One Box.

No. 714

WITH NICKEL PLATED STEEL HOPPER AND REMOVABLE COVER

Each

‡No. 514—Capacity of Hopper 2½ lbs.; Will Grind a Pound of Coffee in 120 Turns; Hopper 7⅞ in. Diameter, Height over all 31 in.; Diameter of Base 13½ in.; Diameter of Flywheels 17 in.; Weight each about 64 lbs. $30.00

‡No. 714—Capacity of Hopper 4 lbs.; Will Grind a Pound of Coffee in 75 Turns; Hopper 9 in. Diameter; Height over all 36 in.; Diameter of Base 15½ in.; Diameter of Flywheels 19 in.; Weight each about 90 lbs. 37.00

Packed in One Crate and One Box.

ENTERPRISE, WHEEL PATTERN, PLAIN BEARING, WITH STAND

Painted Cast Iron Braced Elevating Stand or Base.

No. 716

Each

‡No. 716 WITH CAST IRON HOPPER AND PIVOTED COVER; Capacity of Hopper 3½ lbs.; Will Grind a Pound of Coffee in 75 Turns; Hopper 8¾ in. Diameter; Height over all 66 in.; Dimensions on Floor 21½x22 in.; Flywheels 25 in. Diameter; Weight each about 152 lbs. .. $54.00

‡No. 718—WITH NICKEL PLATED STEEL HOPPER AND REMOVABLE COVER; Capacity of Hopper 4 lbs.; Will Grind a Pound of Coffee in 75 Turns; Hopper 8¾ in. Diameter; Height over all 66 in.; Dimensions on Floor 21½x22 in.; Flywheels 25 in. Diameter; Weight each about 152 lbs.. 60.00

Packed in Two Crates and One Box.

NOTE—All Coffee Mills on this page should be run at a speed of not over 200 Revolutions per Minute for Granulating, or 100 Revolutions per Minute for Pulverizing; One-fourth Horse Power required for Granulating at 100 Revolutions per Minute, One-half Horse Power required for Pulverizing at 200 Revolutions per Minute. A Mill on this page can be Regulated to Grind Coarse or Fine while running. IN ORDERING SPECIFY PURPOSE FOR WHICH MILL IS TO BE USED AND HOW FINE MATERIAL IS TO BE GROUND. When Special Specifications are not given, Mills Will BE SENT with Coarse for Granulating Coffee.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by the agent direct from factory.

"The recollection of QUALITY remains long after the PRICE is forgotten."
Trade Mark Registered U. S. Pat. Office —E. C. SIMMONS

MISCELLANEOUS
AND
HOUSEHOLD HARDWARE

Your mail orders will receive our most careful attention at all times

COFFEE MILLS.

ENTERPRISE

Cast Iron, Painted Black, Red and Gold striped; Hardened Cast Grinders, PLAIN BEARING, with Crank, Thumb Screw Adjustment; Capacity of Hopper 4 oz.; will Grind 6 oz. per minute.

With Slide Cover and Drawer; Hardwood Base, 6½ in. Square; Hopper, 3½x4 in.; Height over all 12½ in.; Extreme Width 6 in.

Each

No. 1N—ENTERPRISE. Weight each about 10 lbs. $4.20

Six in a Case.

With Clamp to Fasten to Table; Open Hopper 3½x4 in.; Height over all 11½ in.; Extreme Width 5½ in.

Each

No. 0N—ENTERPRISE. Weight each about 6 lbs. $2.90

Twelve in a Case

To Screw on Wall; Complete with Cup; Side Adjustments, Open Hopper, 3½x4 in.; Height over all 9 in.; Extreme Width 5½ in.

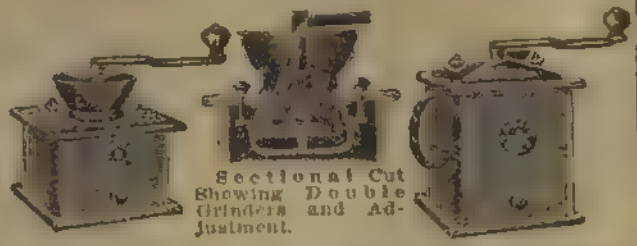
Each

No. 00N—ENTERPRISE. Weight each about 5 lbs. $2.40

Twelve in a Case.

RUN EASY*, OAK; BOX PATTERN

Polished Lock Cornered OAK BOX, with Drawer; Cast Iron Top Castings and Crank; Bower-Barff Finish Enameled Knobs, Two Top Adjustment Nuts; Adjustable Chilled Iron Double Grinders.



Sectional Cut Showing Double Grinders and Adjustment.

Per Dozen

No. 07—RUN EASY*; Box 6 in. Square; Height 4½ in.; Height over all 7 in.; Weight per dozen about 66 lbs. $13.00

No. 08—RUN EASY*; Box 7 in. Square; Height 4½ in. Height over all 7½ in.; Weight per dozen about 76 lbs. $14.50

Per Dozen

No. 90—RUN EASY*; SIDE HANDLE; Box 7 in. Square; Height 7 in.; Height over all 9 in.; Capacity One Pound; Weight per dozen about 84 lbs. $10.00

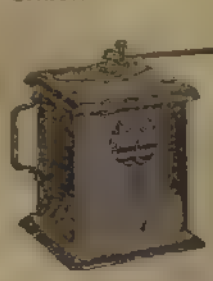
RUN EASY*, STEEL; BOX PATTERN.

22 Gauge STAMPED STEEL, Japanned Box, with Metal Drawer; Reinforced Top; Beaded Bottom; Steel Crank with Black Enameled Wood Knob; Sunk Hopper, with Spring Lift Cover; Patent Adjusting Screw at Top of Handle; Adjustable Chilled Iron Grinders.

Size of Box 4x4¼ in. Height over all 6 in.

Per Dozen

No. R300—RUN EASY*; Capacity ½ lb.; Weight per doz. abt. 20 lbs. $11.50



Side Handle; Size of Box 5x6½ in.; Height over all 8½ in.

Per Dozen

No. R400—RUN EASY*; Capacity 1 lb.; Weight per doz. abt. 30 lbs. $14.00

One-half Dozen in a Wood Box.

COFFEE MILLS.

DELMAR*, BOX PATTERN.

Varnished Lock Cornered Hardwood Box, with Drawer; Fire Bronzed Cast Iron Top Castings and Gold Bronzed Crank, Enameled Knobs; Two Top Adjustment Nuts; Adjustable Chilled Iron Double Grinders.

Per Dozen

No. D1—DELMAR*; Box, 6 in. Square; Height 4½ in.; Height over all 7 in.; Weight per dozen about 57 lbs. $10.50

No. D2—DELMAR*; Box 7 in. Square; Height 4½ in.; Height over all 7 in.; Weight per dozen about 76 lbs. $13.00

Per Dozen

No. DP3—DELMAR*; Side Handle; Box, 7 in. Square; Height 7 in. Height over all 10 in.; Capacity One Pound; Weight per dozen about 84 lbs. $12.00

DELMAR*, SIDE OR WALL PATTERN

Varnished Hardwood Back, Finished Edges; Cast Iron Fire Bronzed Body and Hopper, and Gold Bronzed Crank, Plain Grip; Two Side Adjustment Nuts; Adjustable Chilled Iron Grinders; Hinged Cover to Hopper.

Per Dozen

No. S10—DELMAR*; Height over all 7 in.; Width 7 in.; Weight per dozen about 66 lbs. $8.50

UTILITY*, BOX PATTERN

Cast Iron Hopper and Crank, Enameled Knob; Dovetailed Hardwood Box, with Drawer, Varnished; Berlin Bronzed Castings; Top Regulating Nut; Chilled Iron Grinders.

Per Dozen

No. U1—UTILITY*; Box, 5¾ in. Square; Height 8¾ in.; Hopper 2¼x4 in.; Weight per dozen about 36 lbs. $5.00

No. U2—UTILITY*; Box, 6¼ in. Square, Height 4 in.; Hopper 2x4 in.; Weight per dozen about 48 lbs. 6.00

Per Dozen

No. U3—UTILITY*; Box, 6½ in. Square; Height 5 in.; Hopper 2x4½ in.; Weight per dozen about 60 lbs. $7.50

Lock Cornered Hardwood Box, with Drawer, Extra Finished and Varnished, Japanned Crank and Side Handle. Enameled Knob; Top Adjusting Screw; Tin Screw Top Opening; Sunk Air-Tight Hopper; Capacity of Hopper about One Pound.

ONE POUND; BOX PATTERN.

Per Dozen

No. U5—UTILITY*; Wire Wood Bottom to Hopper; Box 6½ in. Square, Height 7 in.; Hopper 4½x5 in.; Weight per dozen about 55 lbs. $8.00

One-half Dozen in a Wood Box.

COFFEE MILLS.

UTILITY®, BOX PATTERN.

Sunken Cast Iron Hopper with Sliding Cover, Cast Iron Crank, Enameled Knob, Dovetailed Hardwood Box, with Drawer, Nickel-Plated and Varnished, Ornamental Berlin Bronzed Top Castings; Top Regulating Nut, Chilled Iron Grinders.

Per Dozen

No. 120—UTILITY®; Box, 6 in. Square; Height 4¾ in.; Hopper 3½x3 in.; Weight per dozen about 60 lbs. $9.50

Per Dozen

No. 110—UTILITY®; Box, 6 in. Square, Height 5 in.; Hopper 3½x3 in.; Weight per dozen about 50 lbs. $7.50

UTILITY®, SIDE PATTERN.

Full Ornamental Cast Iron Hopper and Body, with Cast Crank, Enameled Grip, Mounted on Varnished Hardwood Board, Japanned Castings, Front Adjusting Screw, Chilled Iron Grinders, Drop Cover to Hopper.

Per Dozen

No. 118-1—UTILITY®; Board, 5¼x8 in.; Hopper 3½x4 in.; Weight per dozen about 40 lbs. $5.20

Per Dozen

No. 118-2—UTILITY®; Board, 6¾x8¾ in.; Hopper 3½x4½ in.; Weight per dozen about 50 lbs. $6.50

No. 118-3—UTILITY®; Board, 7¼x10 in.; Hopper 4x5 in.; Weight per dozen about 70 lbs. 7.30

One-half Dozen in a Wood Box.

PARKER'S, BOX PATTERN.

Hardwood Lock-Cornered Varnished Box with Drawer, Stark Hopper, Stamped Steel Top and Side Covers, Cast Iron Crank, Drop Handle, Enameled Finish, Nut on Knob, Hardened Cast Steel Grinders, Cup Adjustment Nut.

Per Dozen

No. 121—PARKER'S; Box, 6 in. Square; Height 5 in.; Hopper 3x3 in.; Weight per dozen about 66 lbs. $11.50

Per Dozen

No. 335—PARKER'S; Box, 6 in. Square; Height 9 in.; Hopper 3½x3½ in.; Weight per dozen about 85 lbs. $12.50

One-half Dozen in a Wood Box.

COFFEE MILLS.

PARKER'S, BOX PATTERN.

Hardwood Lock Cornered Varnished Box with Drawer, Japanned Iron Hopper and Crank, Enameled Knob, Two Adjustment Nuts on Top of Box.

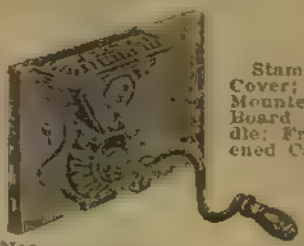
Per Dozen

No. 104—PARKER'S, WITH SINGLE GRINDERS; Box, 6 in. Square; Height 4 in.; Hopper 1¾x4 in.; Weight per dozen about 50 lbs. $8.00

No. 25—PARKER'S, WITH DOUBLE GRINDERS; Box, 7¼ in. Square; Height 6 in.; Hopper 2x5 in.; Weight per dozen about 76 lbs. 15.00

One-half Dozen in a Case.

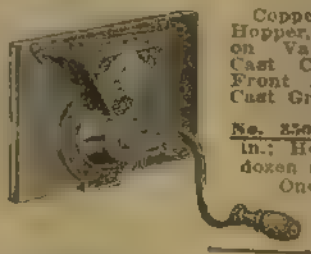
PARKER'S, SIDE OR WALL PATTERN.



Stamped Steel Hopper with Drop Cover; Japanned Cast Iron Body, Mounted on Varnished Hardwood Board, Cast Crank with Plain Handle; Front Adjusting Screw; Hardened Cast Grinders.

Nos.	50	60	70	80	130
Board, inches	7x8	7x9	7x10	9x12	11x17
Hopper, depth, inches	3½	4	4	6½	8
Hopper, width, inches	3	3	4½	7½	9
Weight per doz. about, lbs.	40	50	85	110	165
Per dozen	$6.50	7.00	9.00	15.00	28.00

Nos. 50 to 80, One-half Dozen; No. 130, One-third Dozen in a Case.



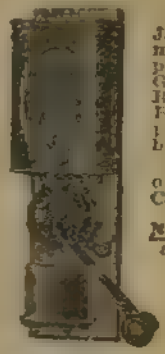
Coppered Cast Iron Body and Hopper, with Drop Cover; Mounted on Varnished Hardwood Board, Cast Crank with Plain Handle; Front Adjusting Screw, Hardened Cast Grinders.

Per Dozen

No. 330—PARKER'S; Board, 6x8 in.; Hopper 3x5 in.; Weight per dozen about 50 lbs. $9.00

One-half Dozen in a Case.

OPLEX.



Stained Wood Back, 3¼x14 in.; Heavy Japanned Stamped Steel Canister, with Removable Lid; Heavy Oval Bull's-Eye Glass pressed into the Front; Double Chilled Iron Grinders, with Wheel Screw Adjustment at Rear, Japanned Cast Iron Grinder Casing, Handle and Cup; Brass Ket[illegible]; Heavy Sheet Metal Cup rest [illegible] Bracket between Grinders.

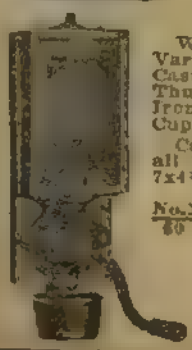
CAPACITY OF HOPPER 1 LB.; Height over [illegible]. Extreme Width 3½ in. Canister 7x4 in.

Per Dozen

No. 10 O—OPLEX; Weight per dozen about 57 lbs. $14.50

One Dozen in a Fibre Case.

X-RAY.



Wood Back, 5x11½ in.; Wood Hopper, Varnished, with Glass Front and Japanned Cast Slide Lid; Chilled Iron Grinders; Front Thumb Screw Adjustment; Japanned Cast Iron Body and Handle; Detachable Iron Cup.

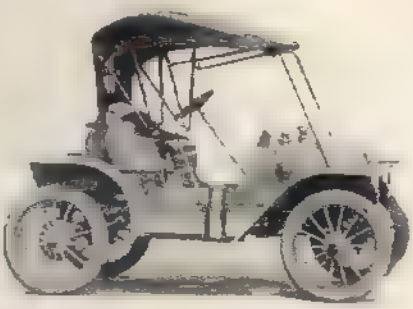
Capacity of Hopper 1 lb.; Height over all 13 in.; Extreme Width 4⅜ in.; Canister 7x4¾ in.

Per Dozen

No. X—X-RAY; Weight per dozen about 60 lbs. $9.00

One-half Dozen in a Fibre Case.

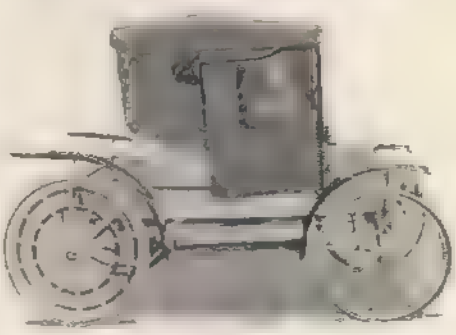
WHITE 60, 7-PASS. TOURING CAR, $5000
Also 60, 2-Pass. Roadster, $4800, 5-Pass. Touring Car, $5000, Coupe, $5400; Berline, $5300



ZIMMERMAN MODEL D, 2-PASS, $450.
Also Model E, 2-Pass. Roadster, $450.

Pleasure Cars

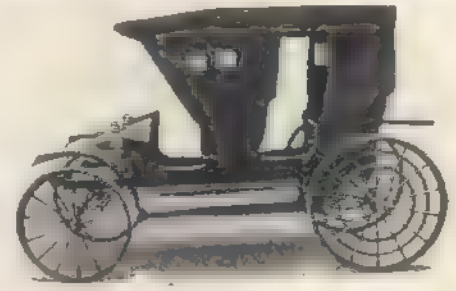
Ignition	Spark Plug Size	Clutch, Style	Style of Drive	Change Speeds	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Lever	Wheel Base	Engine Number
				Columbus, Ohio.						
E	..	C	B	S	..	37x5	37x5	..	142	..
				Auburn, Ind.						
.	..	..	..	..	F	.....	.....	L	120	..
				Richmond, Ind.						
SP	..	C	B	S	F	36x4	36x4	R	128	E
				Chicopee Falls, Mass.						
B	..	D	..	S	F	37x4½	37x4½	R	131	A
B	..	D	..	S	F	37x5	37x5	R	128	A
				Indianapolis, Ind.						
.	..	C	B	S	F	36x4½	36x4½	L	132	E
				Moline, Ill.						
B	S	D	B	S	F	.....	.....	L	126	E
				Richmond, Ind.						
MI	½	C	B	S	S	34x4	34x4	R	128	E
				Cleveland, O.						
B	S	C	B	S	..	37x5	37x5	L	132	E
				Cleveland, O.						
O	S	D	B	S	F	36x4½	36x4½	L	130	A
				Auburn, Ind.						
R	½	D	B	S	F	36x4	36x4	O	132	O



DURYEA BUGGYAUT 2 PASS. BUGGY, $450.

Pleasure Cars

					Auburn, Ind.					
		D	C	L	D	34x1¾	34x1¾	..	...	..
					Saginaw, Mich.					
O	½	..	..	F	D	*38x1¼	*44x1¾	C	88	..
O	½	..	..	F	D	*38x1¼	*44x1¾	C	96	..
					Auburn, Ind.					
R	½	B	..	L	D	30x3	30x3	R	80	..



DURYEA 4-PASS. SURREY, $600.

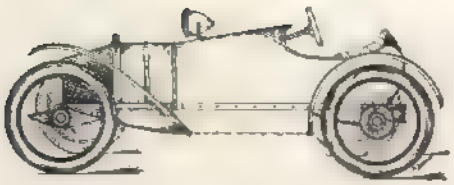
Cycle Cars

					St. Paul, Minn.					
B	½	..	C	F	..	28x3	28x3	C	120	..
					7 E. 42nd St., New York City.					
SP	..	..	..	F	D	26x2½	26x2½	C	...	..

STICKNEY MOTORETTE, 2-PASS. TANDEM, $395.

STEVENS-DURYEA, SIX-CYLINDER, 7-PASS TOURING CAR, $4800.

BRISCOE FOUR-CYLINDER CYCLE CAR, $380.



AUTO-CYCLECAR, 1-PASS., $300.

COMET MODEL A, $400.

CORNELIAN 2-PASS. RUNABOUT, $400.

LAVIS 2 PASS TANDEM $425

DURYEA 2-PASS. CYCLECAR, $450.

DUDLY MODEL A-1, 2-PASS. ROADSTER, $375.

Cycle Cars

Name of Model	Price	Cylinders	Horsepower	Passengers	Bore	Stroke	Cylinders Cast	How Cooled	Radiator
American Voiturette Co.,									
Carnation	495	2	18	4	3.38	3.75	B	T	T
Allen Iron & Steel Co.,									
..	..	2	..	2	....	....	..	A	..
American Cyclecar Co.,									
13-A	425	2	13	4	3.68	4	B	T	T
Automobile Cyclecar Co.,									
W	300	..	..	..	....	....	..	..	..
Brown Cyclecar Co.,									
Brown	375	2	10	2	3.5	3.67	S	A	
Blood Bros. Machine Co.,									
....	....	2	..	2	....	....	..	S	A
Comet Cyclecar Co.,									
A	400	2	10	2	3.5	3.67	S	A	.. SL
Cornelian Co.,									
	400	2	4	2	2.38	3.9	S	A	..
Cyclecar Engineering Co.,									
Cyclecar	375	2	..	2	....	....	S	A	.
Cricket Cyclecar Co.,									
Roadster	....	2	8	2	3.25	3.6	S	A	..
Duryea Motor Co.,									
Cyclecar	450	2	19	2	3.75	3.75	S	A	..
Dayton Cyclecar Co.,									
A	375	2	10	2	3.5	3.63	S	A	..
Dudley Tool Co.,									
A-1	375	2	..	2	....	....	S	A	..
Downing Detroit Cyclecar Co.,									
A	450	2	10	2	3.5	3.67	S	W	T
De Cross Cy Car Co.,									
Pleasure	385	2	10	2	3.5	3.63	S	A	..
Davis Cyclecar Co.,									
14	425	2	10	2	3.5	3.67	S	A	..
Detroit Cyclecar Co.,									
	375	2	13	4	2.75	4	B	T	T
Economycar Co.,									
	375	2	10	2	3.5	3 63	S	A	..
W. S. Frazier & Co.,									
Speedster	....	2	9	2	3.38	3.88	..	A	..
Fenton Cyclecar Co.,									
A	375	2	10	2	3.5	3.67	S	A	..
Flagler Cyclecar Co.,									
A-1	375	2	9	2	3.38	3.88	P	A	..
Falcon Cyclecar Co.,									
1914	385	2	9	2	3.38	3.9	S	A	..
Fredericksson Patents Co.,									
Fredericksb'n	350	2	10	2	2.75	3.5	S	A	..
Hawk Motor Car Co.,									
A	375	2	..	2	....	....	S	A	..
Mercury Cyclecar Co.,									
A	375	2	10	2	3.5	3.5	S	A	..
Rayfield Motor Co.,									
Cyclecar	375	2	12	4	2.75	4.5	B	T	V
Scripps Booth Cyclecar Co.,									
Rocket	....	2	10	2	3.5	3.67	..	A	..
Valley Boat & Engine Co.,									
2A	375	2	9	2	3.38	3.9	S	A	..
Victor Motor Car Co.,									
7	500	2	12	4	3.38	3.75	P	T	V
Woods Mobilette Co.,									
A	385	2	12	4	2.69	2.94	S	A	.
Zip Cyclecar Co.,									
Roadster	395	2	9	2	3.38	3.9	S	A	..
Imp Cyclecar Co.,									
	375	2	..	2	....	....	S	A	..

DE CROSS 2-PASS. CY CAR, $385.

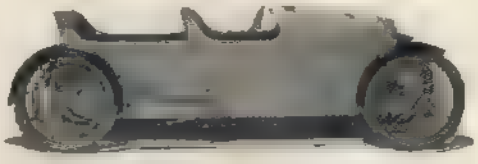
Cycle Cars

Carburetor	Ignition	Clutch, Style	Style of Drive	Change Speed	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Location	Wheel Base	Engine Starter
			Detroit, Mich.							
SP	.	D	..	S	S	30x3	30x3	L	104	..
			Philadelphia, Pa.							
..	.		.	F	..	28x3	28x3	L	100	.
			Bridgeport, Conn.							
..	.		C	F	D	28x3	28x3	L	80	.
			Detroit, Mich.							
SP	B		S	F	..	30x3	30x3	..	80	..
			Asbury Park, N. J.							
SL	B	.	..	F	D	28x3½	28x2½	L	96	..
			Kalamazoo, Mich.							
..		..	.	F	F	....	...		96	..
			Indianapolis, Ind.							
B	M	B	C	L	D	28x3	28x3	C	100	..
			Kalamazoo, Mich.							
SL	T	D	B	S	S	28x3	28x3	L	100	.
			Indianapolis, Ind.							
SL	B	B	L	L	D	28x2½	28x2½	C	100	.
			Detroit, Mich.							
...	...	D	L	S	D	28x2½	29x2¾	R	78	..
			Saginaw, Mich.							
HR	O	..	.	F	D	30x3	30x3	R	102	.
			Joliet, Ill.							
SL	B	..	..	F	D	28x2½	28x2½	L	104	..
			Menominee, Mich.							
SL	B	..	..	..	D	28x3	28x3	R	96	..
			Detroit, Mich.							
SL	B	..	B	L	S	28x3	28x3	R	103	..
			Cincinnati, Ohio.							
SL	B	..	..	F	D	28x2¾	28x2¾	C	...	..
			Detroit, Mich.							
SL	B	D	C	S	D	28x2½	28x2½	C	93	..
			Detroit, Mich.							
. .	B	D	B	S	D	28x3	28x3	..	92	..
			Indianapolis, Ind.							
SL	B	..	L	L	D	28x3	28x3	C	100	.
			Aurora, Ill.							
SL	B	..	..	F	..	28x2¾	28x2¾	L	93	..
			Fenton, Mich.							
SL	B	..	..	F	D	28x2½	28x2½	L	96	..
			Cleveland, Ohio.							
SL	A	..	..	F	F	.....	.....	R	90	
			Cleveland, Ohio.							
HR	SP	..	..	F	D	28x3	28x3	L	96	.
			Chicago, Ill.							
R	SW	..	L	H	D	28x3	28x3	L	100	..
			Detroit, Mich.							
SL	B	..		F	D	28x3	28x3	L	100	.
			Detroit, Mich.							
SL	B	..	L	F	D	28x2½	28x2½	C	100	.
			Chrisman, Ill.							
R	B	D	B	S	S	28x3	28x3	L	96	.
			Detroit, Mich.							
SL	A	.	L	L	D	28x3	28x3	C	100	.
			Saginaw, Mich.							
SP	A	..	..	F	D	29x2¾	29x2¾	L	100½	.
			Philadelphia, Pa.							
B	BL	C	B	S	F	30x3½	30x3	O	98	.
			Chicago, Ill.							
B	.	.	..	F	F	28x2½	28x2½	C	95	.
			Davenport, Ia.							
SL	A	.	.	F	D	28x2½	28x2½	L	92	..
			Auburn, Ind.							
.	..	.	L	F	..	28x2½	28x2½	C	100	.

DAYTON 2-PASS. TANDEM, $375.

FALCON 2-PASS ROADSTER, $385

IMP CYCLECAR, $375.



MERCURY MODEL A, 2-PASS. TANDEM, $375.

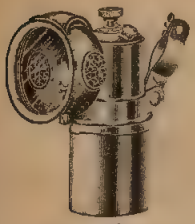
VICTOR MODEL 7, 2-PASS FORE DOOR, $500.

DETROIT 2-PASS. SPEEDSTER, $375.

ZIP 2-PASS. ROADSTER, $395.

BICYCLE LAMPS

GAS



OLD SOL

The "Old Sol" is Symetrical and Pleasing in Appearance. The Sloping Rounded Hood and Well Protected Body Give it Distinction.

Finely Nickel Plated on Heavy Brass.

Front Glass is a Double Convex Lens 2¾ inches in Diameter. Has Sifting Carbide Basket.

Will Burn 6 to 7 Hours on One Charge of Carbide and Furnish a Light of About 100 Candle Power.

Each

No 10—With Bracket Height Over All 5¾ inches; Diameter of Door 4 inches; Diameter of Reflector 3 inches; Carbide Capacity 5 ounces; Weight Each 2½ lbs **$3 85**

One in a Box

With Fork or Head Bracket

SOLAR MODEL O

Solar Lamps are Popular Favorites, being Handsome in Design and Finish; Mechanically Perfect and Thoroughly Well Made from Heavy Gauge Sheet Brass, Nickel Plated and Polished; Height 7 inches Double Convex 2½ inch Lens; 1½ inch Red and Green Jewel Side Lights; Carbide Pot with Capacity of 3 ounces of Carbide and ¾ pint of Water; Sufficient to Burn 6 hours.

Per Dozen

No. 10SG With Fork Bracket; Weight each 2½ lbs **$43 80**

No. 10SDG—With Dash Bracket; Weight each 2½ lbs..... **49 80**

One in a Box

With Dash Bracket

20TH CENTURY

20th Century Lamps are Well Known, and Have Proven their Durability. The Lamp Proper is Made of Heavy Sheet Brass and the Clamp of Steel; Both Fully Nickel Plated and Polished; New Pate Door Latch securely holds the Door from Swinging Open at all Times; New Exposed Carbide Cap Chamber has no Screw Threads to become Corroded by the Action of the Carbide. A Simple Turn Readily Opens the Carbide Chamber but when attached is absolutely secure and Gas Tight. Height 7 inches; 2¾ inch Convex Lense Red and Green Side Jewels; Parabolar Reflector Capacity for Enough Carbide and Water to Burn 5 to 6 hours.

Each

No **20CG**—Weight Each 1¼ lbs **$3 70**

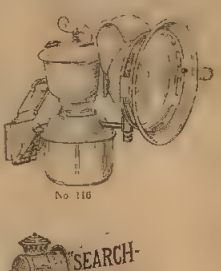
Water Tank and Carbide Chamber Nickel Plated Steel; 3 inch Aluminum Reflector; Brass Trimmings; Best Lava Tip; Plain Glass Front.

Each

No **116**—Height 5¾ inches, 4 inch Fronts; Carbide Capacity 3 oz. Will Burn about Five Hours without Recharging. Weight Each 1 lb. **$2 20**

No 20CG

One in a Box



No 116

COLUMBIA

Columbia Lamps have Proven Very Popular being Made of Heavy Sheet Brass, Nickel Plated, Charms being Steel, Automatic Water Feed and special Design Gas Valve, Regulating Size of Flame. Height 8½ inches; 2¼ inch Double Convex Lens, Red and Green Side Jewels; Capacity to Burn about 6 hours.

Each

No. 15VG—Weight Each 2lbs **$5 00**

SEARCH LIGHT

Search Light Lamps are Exceedingly Popular and Satisfactory, having been on the Market for a Long Time. Heavy Sheet Brass, Nickel Plated and Polished. Height 8 inches. 2½ inch Double Convex Lens; Ruby and Green Side Jewels, Has Carriage and Water Capacity Sufficient to Burn 6 hours.

Each

No. 235LG—Weight Each 2 lbs. **$4 10**

One in a Box

BICYCLE LAMP BRACKETS

COMMON HEAD

Heavy Steel Clamp with Thumb Adjusting Screw; Double Wire Lamp Support; Nickel Plated; Clamp Felt Lined to Protect Enamel; Fits 1⅛ to 1⅝ inch Heads.

Per Dozen

No. 1—Weight per Dozen 1¼ lbs. $1 25

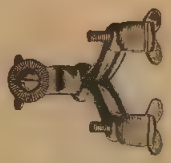
SOLAR HEAD OR FORK

Heavy Sheet Brass; Nickel Plated and Polished, Adjustable to any Position; Fits any Size Head or Fork; Clamps Felt Lined to Protect Enamel.

Each

No. SH—Weight Each 5 ozs. ... $1 20

Loose



SOLAR DASH

This Bracket is Used for Converting a Bicycle Lamp into a Buggy Lamp; made of Heavy Cast Brass. Black Japanned. Adjustable to Either Side of Dash.

Each

No. SD—Weight Each 9 ozs. $1.20

SHIPP

No More Lost Sales of Lamps because the Old Brackets would not Fit. The Shipp Bracket Fits them all.

Light always in Front of Wheel. Attached in One Minute. Rigidity of Lamp when attached. Universal to all Handle Bars. Can be used as Package Carrier when Lamp is not in Use

Made in Styles to Fit all Patterns of Handle Bars.

Malleable Iron; Nicket Plated on Copper.

FOR DIRECT STEMS

Per Dozen

No. 2—Attaches to Handle Bar by Expander Post; Weight per Dozen 2 lbs. $6 50

FOR CHICAGO IDEAL AND RUGBY BARS

Per Dozen

No. 1—Furnished with Long Bolt to attach to Handle Bar, Weight per Dozen 2½ lbs. $5 50

FOR KELLY AND HUSSEY BARS

Per Dozen

No. 2—Furnished with Special Nut to attach to Handle Bar; Weight per Dozen 1¾ lbs. $6 50

One Dozen in a Box.

BICYCLE LAMP HANDLES

SOLAR

Will attach to any Acetylene Bicycle Lamp, having a Solar style Bracket. In this way a Bicycle Lamp may be easily converted into a Hand Lamp suitable for many purposes; especially adaptable for Frog Shooting and Coon Hunting.

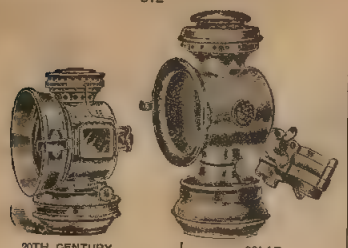
Each

No. 5—Cast Brass Frame, Nickel Plated and Polished, Black Rubber Composition Handle; Weight 6 ozs $1.35

Loose.

BICYCLE LAMPS

OIL



20TH CENTURY

20th Century Lamps are all Brass, Except the Clamps, which are Steel; Nickeled and Polished; Height 5⅜ inches; 2¾ inch Convex Lens; Large Colored Side Lights; Aluminum Parabola Reflector; Burns 12 hours.

Each

No. 60CO—Weight Each 1½ lbs. $2.75*

SOLAR

Solar Lamps are made of Heavy Gauge Sheet Brass Nickeled and Polished; Height 6⅛ inches; 2¼ inch Convex Lens; Red and Green Jewel Side Lights; Oil Capacity ½ pint.

Dozen

No. 60SO—Weight Each 1½ lbs. $25 00

LIGHT WEIGHT

Light Weight Lamps are made of Sheet Steel; Heavily Nickeled and Polished; Height 8½ inches; 2½ inch Convex Lens; Red and Green Side Jewels; Burns about 10 hours.

Each

No. 50LO—Weight Each ½ lb . . . $1 65

COLUMBIA

Columbia Lamps have Heavy Brass Bodies and Steel Clamps, Nickeled and Polished; Height 6 inches; 2¼ inch Convex Lens; Red and Green Side Jewels; Burns about 10 hours.

Each

No. 50CO—Weight Each 1¼ lbs. . . . $2 65

LAMP BURNERS

FOR MOTORCYCLE

American made of German Lava Imported from Minesia, Bavaria. The only material that can be used when the highest efficiency and accuracy is expected.

	Per Dozen
No. 168¼—¼ Foot Knurled Pillar..	$1.70
No. 168⅜—⅜ Foot Knurled Pillar..	1.70
No. 168½—½ Foot Knurled Pillar..	1.70

One Dozen in a Box; Weight about 4 ozs.

BICYCLE LAMP PARTS

FOR MODEL O SOLAR GAS

NOTE.—Always Specify Model of Lamp When Ordering

	Each
+ No. B —Screen Tube; Weight 1 oz.	.24
+ No. B1—Screen Tube Plate; Weight 1 oz.	.24
+ No. B2—Carbide Spring; Weight 1 oz.	.24
+ No. C —Washer Plate; Weight 1 oz.	.14
+ No. C1—Washer Plate Nut	.14
+ No. D —Rubber Washer	.14
+ No. E —Flare Washer	.14
+ No. F —Wick Tube Cap, Weight ½ oz.	.14
+ No. F1—Wick Tube, Weight 1 oz.	.24
+ No. G —Water Valve, Weight ½ oz	.30
+ No. G1—Valve Washer and Nut	.14
+ No. H —Filler Cap; Weight ⅛ oz.	.24
+ No. H1—Cap Washer	.10
+ No. I —Tip Holder; Weight ⅓ oz.	.24
+ No. J —Tip, Weight ⅓ oz	.30
+ No. K —Ratchet Screw, Weight ½ oz	.24
+ No. L —Reflector, Weight 1 oz	.24
+ No. M —Jewel, Red or Green Weight 1 oz.	.35
+ No. M1—Lens Door; Weight 2 ozs.	.40
+ No. M2—Lens; Weight 1½ ozs.	.50
+ No. N —Bracket, Complete; Weight 6 ozs.	1 40
+ No. O —R. H. Bracket Side; Weight 2 ozs	.35
+ No. O1—L. H. Bracket Side; Weight 2 ozs.	.35
+ No. P —Clamp Thumb Screw; Weight 2 ozs	.24
+ No. Q —Thumb Screw Nut; Weight ½ oz	.14
+ No. R —Carbide Tank; Weight 3 ozs	.80
+ No. S —Ratchet Screw Nut	.14
+ No. T —Pivot Bolt; Weight ½ oz	.24
+ No. U —Pivot Bolt Nut	.14
+ No. V —Ratchet Arm; Weight 2 ozs	.35
+ No. W —Bracket Lining	.14

FOR TWENTIETH CENTURY GAS

	Each
+ No. 1 —Clear Front Glass; Weight 2 ozs	.23
+ No. 2 —Red Front Glass; Weight 2 ozs	.50
+ No. 3 —Green Front Glass; Weight 2 ozs.	.50
+ No. 4 —Front Glass Circle Wire; Weight ½ oz. 3 For	.14
+ No 61—Lava Tip with Metal Cap; Weight 1 oz	.50
+ No. 62—Aluminum Reflector; Weight ½ oz.	.50
+ No. 63—Reflector Wire; Weight ½ oz 3 For	.14
+ No. 66—Door Hinge and Rivets; Weight 1 oz	.35
+ No. 67—Door Catch and Rivets; Weight 1 oz.	.38
+ No. 68—Screw Water Stopper, Weight ½ oz.	.35
+ No 69—Water Valve Rod, Weight 1 oz.	.50
+ No. 70—Water Valve Arm; Weight ½ oz.	.27
+ No. 71—Water Valve Octagon Nut	.27
+ No. 72—Water Valve Leather 3 For	.14
+ No. 75—Felt Screen Cap 3 For	.14
+ No. 76 Gasket (Fits Inside Cup)	.10
+ No 77 Thumb Screw Washer 3 For	.10
+ No. 79—Wing Nut Bolt, Weight 1 oz	.38
+ No. 80—Door and Glass Weight 4 ozs	.60
+ No. 81—Framed Side Jewels; Weight 1 oz.	.35
+ No. 82—Chimney Cap; Weight 1 oz	.35
+ No. 83—Reservoir Plate; Weight 1 oz	.35
+ No. 85—Body, Including Parts Nos. 60 80, 82 and 83 Weight 12 ozs.	3 00
+ No. 86—Carbide Chamber; Weight 3 ozs.	1 00
+ No. 87—Horseless Cap, Weight 2 ozs	.50
+ No. 88—Cloth Cover Tube, Weight 2 ozs.	.60
+ No. 89—Spring Double Disc, Weight 1 oz	.40
+ No. 90 Bolt in Thumb Screw, Weight 1 oz.	.50
+ No. 91—Hand Wing Nut Bolt, Weight 1 oz.	.90
+ No. 92—Wing Nut, Bolt Weight 1 oz.	.40
+ No. 94—Water Reservoir, Weight 4 ozs.	2 00

Loose

For All Makes of Bicycle Gas Lamps. These Parts Burn Out in a Short While, therefore it is well to carry a Stock of them to Satisfy those Customers who Think their Lamp is Defective, when in Reality their Lamp Tip is Clogged up.

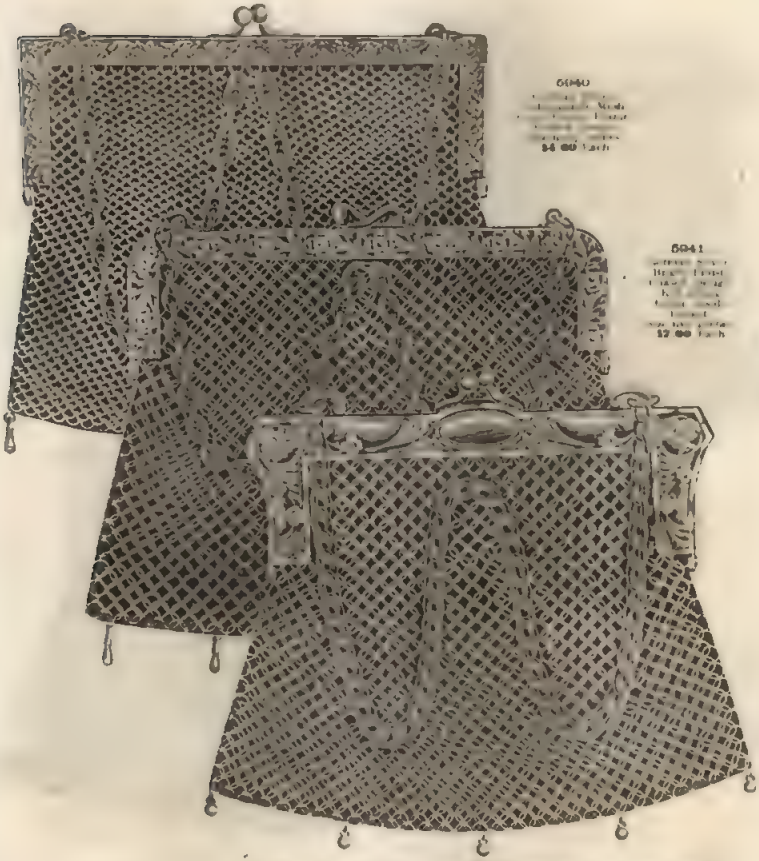
	Per Dozen
No. 100—Weight per Dozen 1 oz.	$1 10

Loose

Items Marked + not Carried in Stock; can only be Purchased by Shipping Direct from Factory. Solar Parts from Kenosha, Wis.; 90th Century Parts from Newark, N. J.

Ladies' Chatelaine Mesh Bags

German Silver Well Made Illustrations are Reduced Size.



5040

$4.00 Each

5041

$7.00 Each

5042

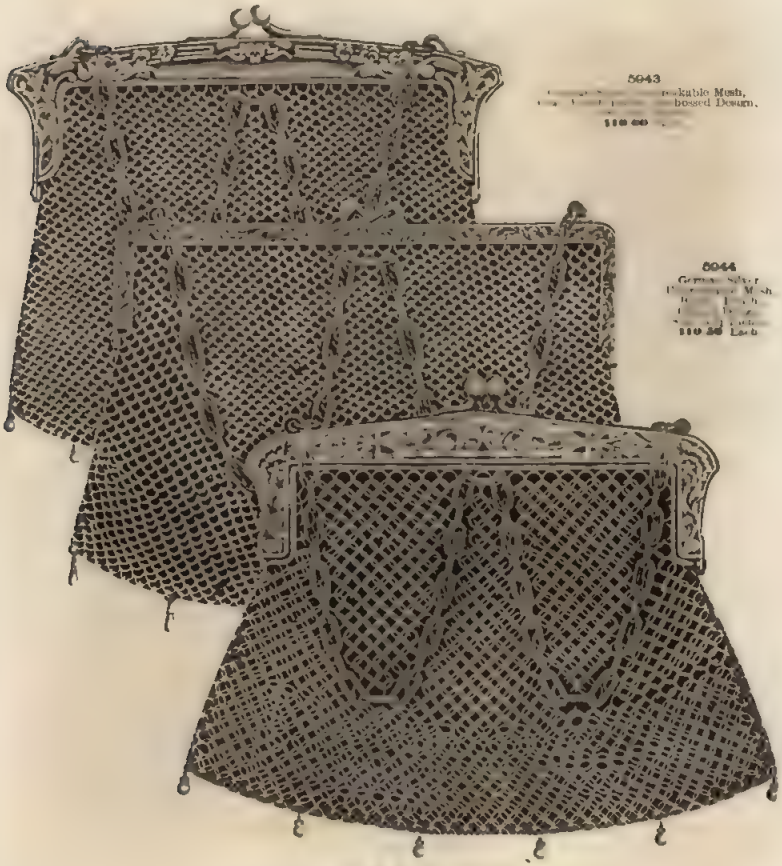
German Silver Gray Finish Frame, Oxidized Design, Kid Lined, Fitted Pocket, Silver Trimmed

$7.00 Each

"THE HOUSE OF QUALITY"

Ladies' Chatelaine Mesh Bags

German Silver Well Made—Illustrations are Reduced Size.



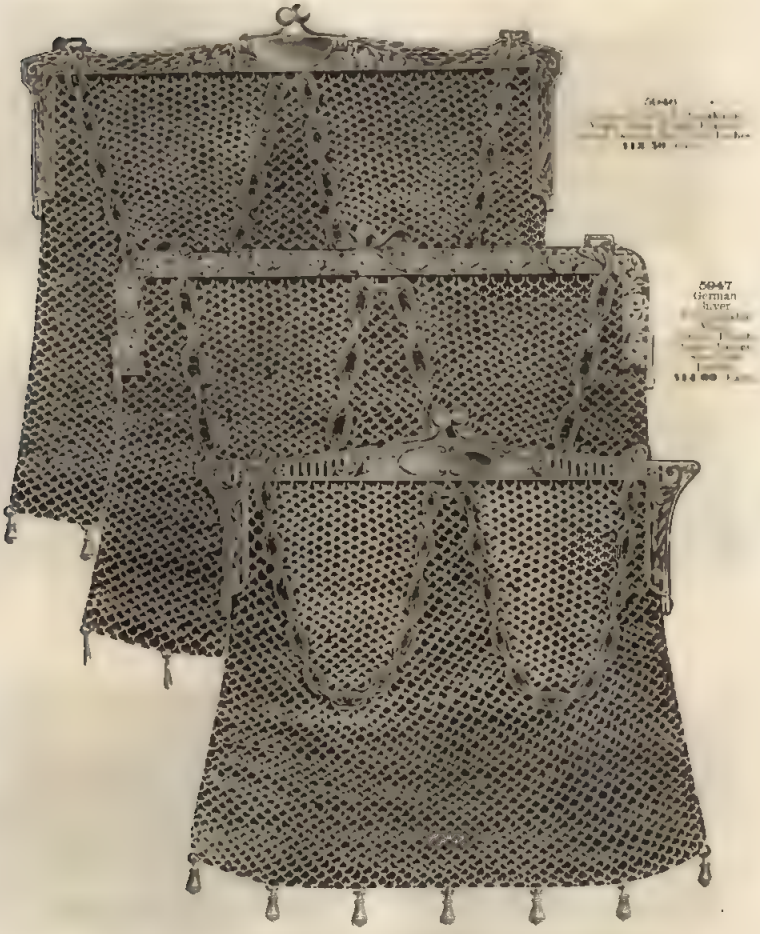
5043
[illegible] Mesh,
[illegible] Bossed Design.
$10 00

5044
German Silver
[illegible] Mesh
$10 50 Each

5045
German Silver, [illegible]
$11 25

Ladies' Chatelaine Mesh Bags

German Silver Well Made Illustrations Are Reduced Size.



5947
German
Silver

5948 German Silver, Unbreakable Mesh, Gun Metal Finish Frame, Chased Design, Three Compartments, Change Purse Inside, Size 7½x7 Inches, $12.00 Each

"THE HOUSE OF QUALITY"

YELLOW WARE

MIXING BOWLS

Nos.	18S	12S	9S	6S	3S	2S
Inches	7	8	9	11	13	14
Per Dozen	$2 00	3 00	4.00	5.50	8.50	12.00

BED PAN

French

	Per Dozen
No. 1—Shovel Shape	$12.00

GUERNSEY EARTHENWARE

Brown, White Lined, Enameled

THE HISTORY OF CASSEROLE COOKING IN AMERICA

The history of the development of the casserole and casserole cooking in America is but the history of the birth and growth of The Guernsey Earthenware.

Twelve years ago an American potter while in France, visited a pottery where French Casseroles were being made. Most of the product of this factory came to America where, despite the high price necessitated by heavy shipping and revenue expenses, it found a good market.

It immediately occurred to this manufacturer that a domestic pottery would have even a greater demand His technical knowledge of the pottery business furthermore showed him where the foreign product could be improved upon, in finish, quality and number of shapes made.

So on his return to America he started in to make a small line of Brown, White Lined, Enameled Cooking and Serving Dishes, Casseroles, Ramekins and Tea Pots.

The Ware was an immediate success He could not make it fast enough to supply all the retailers who clamored for it The low price of domestic product astounded them; its finish and wearing qualities were the admiration of all; and best of all, it was made at home where they could get small orders within a few days.

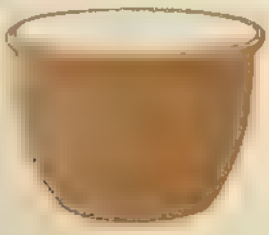
COCOTTES

Nos.	1	2	3
Capacity, Ozs.	4	6	8
Diameter, Inches	3¾	4	4½
Depth, Inches	1½	1⅝	1¾
Weight Per Dozen, Lbs.	3	4	5
Per Dozen	$1.80	1.90	2.30

COCOTTES, WITH HANDLES

Nos.	1H	2H	4H
Capacity, Ozs.	4	6	10
Diameter, Inches	3¾	4	4¾
Depth, Inches	1½	1⅝	1⅞
Weight Per Dozen, Lbs.	4	6	7
Per Dozen	$2.10	2.50	3.50

CUSTARD CUPS



Nos.	1	2	3
Capacity, Ozs	5½	7	10
Diameter, Inches	3	3½	4
Depth, Inches	2⅛	2⅜	2⅞
Weight Per Dozen, Lbs.	4	5	6
Per Dozen	$1 50	2.00	2.30

PETITE MARMITES, OR BEAN POTS

Nos.	1	3	4
Capacity	1 pt.	2 pt.	2 qt.
Diameter, Inches	4	5¼	6¼
Depth, Inches	3½	4½	5½
Weight Per Dozen, Lbs.	12	24	30
Per Dozen	$4 30	7.20	8 70

GUERNSEY EARTHENWARE

Brown, White Lined, Enameled

STEINS

No.	1
Capacity, Ozs.	10
Diameter, Inches	2¾
Depth, Inches	4¼
Weight Per Dozen, Lbs.	14¼
Per Dozen	$4 80

SEAMLESS VEGETABLE CROCKS

Steam Table Jars

Nos.	4	*5
Fit Hole, Inches	9¼	9¾
Capacity, Quarts	10	8
Extreme Width, Inches	10	10⅝
Depth, Inches	9⅜	7¼
Weight Per Dozen, Lbs.	100	140
Per Dozen	$32.00	29.35

*No. 5 Fits John Van Steam Table Standard Size

ROUND COVERED CASSEROLES

For Metal Receivers

Nos.	66	67
Diameter Frame, Inches	5⅝	6¾
Depth Frame, Inches	2¾	2⅞
Weight Per Dozen, Lbs	20	30
Per Dozen	$8.30	10.20

OVAL STEW POTS

No. 81

For Metal Receivers, no Handles

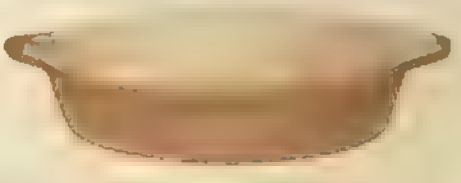
Nos.	*81	83	84
Capacity	1½ pt	2½ pt	2¼ qt.
Length Frame, Inches	6¼	7¾	8¾
Width, Frame, Inches	4⅜	5½	6¼
Depth Frame, Inches	2¼	3⅛	4
Weight Per Dozen, Lbs.	21	33	55
Per Dozen	$7 75	12 30	21 60

*No. 81 is with Handles and not for Metal Receiver

OVAL BAKERS OR GRATIN DISHES

Nos.	2	3	5	6
Length, Inches	7	8	10	11
Width, Inches	5	5¾	7¼	8
Depth, Inches	1½	1⅝	1⅞	2¼
Wt. Per Dozen, Lbs.	9	11	18	28
Per Dozen	$5 10	6 15	8 80	10 40

ROUND SHIRRED EGG OR MUSHROOM DISHES



No.	1
Diameter, Inches	4
Depth, Inches	¾
Weight Per Dozen, Lbs	4
Per Dozen	$3 20

HUEY & PHILP HARDWARE COMPANY.

GUERNSEY EARTHENWARE

Brown, White Lined, Enameled

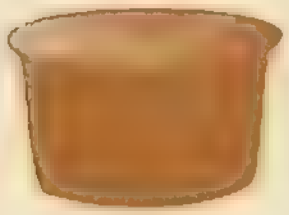
AU GRATIN OR SHIRRED EGG DISHES

Nos.	12	14
Diameter, Inches	5½	7½
Depth, Inches	1¼	1½
Weight Per Dozen, Lbs	8	14
Per Dozen	$4 30	6 40

MIXING BOWLS

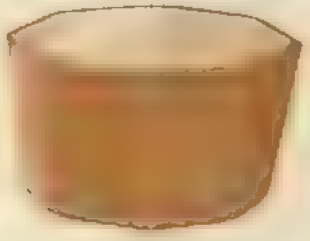
Nos.	4	5	6
Capacity, Quarts	3⅛	6	9½
Diameter, Inches	10	12	14
Depth, Inches	5	6	6¾
Weight Per Dozen, Lbs	45	65	132
Per Dozen	$16 00	24 00	32 00

RAMEKINS



No.	2
Capacity, Ozs	3½
Diameter, Inches	3¼
Depth, Inches	1⅝
Weight Per Dozen, Lbs	4
Per Dozen	$1 60

OCTAGON RAMEKINS



Nos.	1	3	4
Capacity	4 oz	½ pt	2 pt
Diameter, Inches	3⅛	4½	5
Depth, Inches	2	2½	2⅞
Weight Per Dozen, Lbs	4	8	14
Per Dozen	$2 30	4 50	5 80

CAMBRIDGE TEA POTS

	Per Dozen
No. 41—½ Pint, 3⅛x3⅝ in., Weight Per Dozen 12 Lbs.	$ 7.85
No. 42—1 Pint 4¼x4¼ in Weight Per Dozen 17 Lbs	10 40

COFFEE SERVERS, HOTEL

	Per Dozen
No. 11—½ Pint, 2⅝x4⅛ in Weight Per Dozen 9 Lbs.	$6 40
No. 12 1 Pint, 3¼x5¼ in Weight Per Dozen 18 Lbs	8 80

RAZORS

GEO. WOSTENHOLM & SON. I*XL AND PIPE

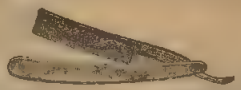
Best Quality English Crucible Razor Steel, Highly Tempered, Carefully Ground and Tested, Honed and Sharpened Ready for Use

I*XL

Black Rubber Flat Handle; Hollow Ground Blade, Full Polished; **Pearl Scale File Tang.**

Per Dozen

No. 01886—Round Point; Width ⅝ inch **$46 20**

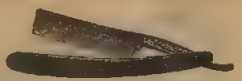


I*XL

Ivory Celluloid Flat Handle; Three Quarters Concaved Ground Blade, Full Polished and Etched; Plain Smooth Tang.

Per Dozen

No. 01951—Square Point; Width ⅝ inch **$23.60**



PIPE

Black Rubber Oval Handle; Full Concaved Ground Blade, Glazed, Plain Smooth Tang.

Per Dozen

No. 01461—Square Point; Width ⅝ inch **$36 40**

I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched, Plain Smooth Tang.

Per Dozen

No. 01974—Hollow Point; Width ⅝ inch **$17.60**

I*XL

Black Rubber Oval Handle; Three Quarter Concaved Blade, Full Polished and Gold Etched, Plain File Tang.

Per Dozen

No. 01080—Round Point; Width ⅝ inch **$36.40**

I*XL

Black Rubber Oval Handle; Hollow Ground Blade, Glazed; Plain Smooth Tang.

Per Dozen

No. 01108—Square Point; Width ⅝ inch. **$15 70**

PIPE

Black Rubber Oval Handle, Concaved Ground Blade, Glazed, Plain Smooth Tang.

Per Dozen

No. 02363—Square Point; Width ⅝ inch **$36.70**

No. 02364—Square Point Width ¾ inch **18 70**

I*XL

Black Rubber Oval Handle; Full Concaved Ground Blade, Full Polished and Etched, Plain Smooth Tang.

Per Dozen

No. 5771—Hollow Point; Width ⅝ inch **$18 70**

PIPE

Black Rubber Oval Handle; Concaved Ground Blade, Glazed; Beveled Back; Plain File Tang.

Per Dozen

No. 02744—Square Point; Width ⅝ inch..... **$18 50**

PIPE

Black Rubber Flat Handle; Medium Hollow Ground Blade, Glazed and Etched, Plain Smooth Tang.

Per Dozen

No. 03548—Square Point; Width ⅝ inch. **$17 60**

I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched; Plain Smooth Tang.

Per Dozen

No. 01442G—Hollow Point; Width ⅝ inch. **$16.50**

PIPE

Imitation Tortoise Shell Oval Handle; Wedge Ground Blade, Full Polished and Etched, Plain Smooth Tang.

Per Dozen;

No. 0881—Square Point; Width ⅝ inch **$3 80**

I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed and Gold Etched, Plain Smooth Tang.

Per Dozen

No. 0483—Hollow Point; Width ½ inch **$24.00**

I*XL

Genuine Ivory Flat Handle; Medium Hollow Ground Blade, Full Polished and Etched, Scroll File Tang

Per Dozen

No. 01048—Round Point. Width ⅝ inch..... **$44 20**

I*XL

Black Rubber Oval Handle; Medium Hollow Ground Blade, Glazed; Plain Smooth Tang

Per Dozen

No. 01443—Hollow Point; Width ⅝ inch **$13.20**

Half Dozen in a Box. Weight per Dozen about 2 lbs.

"DIAMOND EDGE IS A QUALITY PLEDGE"

HORSE SHOES.

SIMMONS' IRON.

Made of Puddled Iron, insuring Uniform High Quality; Contains no Railroad Wrought Scrap, usually employed for what is known as Iron Shoes, as this Material is more or less unreliable in Quality on account of being mixed with Steel or Dead Iron.

SIMMONS' Shoes are Exceedingly Uniform in [illegible] Shape, and are Produced by the Highest Class of Workmanship

SIMMONS' EXTRA LIGHT FRONT

Nos.	SEF1	SEF2	SEF3	SEF4	SEF5
Size No.	1	2	3	4	5
Wgt. each, about, oz.	12	16	19	22	24
No. in a Keg, about	133	114	94	75	63
Per keg	$8.30	8.30	8.30	8.30	8.30

SIMMONS' EXTRA LIGHT HIND

Nos.	SEH0	SEH1	SEH2	SEH3	SEH4	SEH5
Size No.	0	1	2	3	4	5
Wgt. each, about, oz.	10	12	15	19	23	28
No. in a Keg, about	160	133	107	84	70	57
Per keg	$8.30	8.30	8.30	8.30	8.30	8.30

SIMMONS' EXTRA LIGHT FRONT AND HIND

Assorted; Half Front and Half Hind.

Nos.	SEFH1	SEFH2	SEFH3	SEFH4	SEFH5
Size Nos.	1	2	3	4	5
Per keg	$8.30	8.30	8.30	8.30	8.30

About 100 lbs. in a Keg; Assorted.

SIMMONS' LIGHT FRONT

Nos.	SLF0	SLF1	SLF2	SLF3	SLF4	SLF5	SLF6
Size Nos.	0	1	2	3	4	5	6
Wgt. each, about, oz.	12	15	18	21	25	28	35
No. in a Keg	133	107	89	74	64	57	47
Per keg	$8.30	8.30	8.30	8.30	8.30	8.30	8.30

SIMMONS' LIGHT HIND

Nos.	SLH0	SLH1	SLH2	SLH3	SLH4	SLH5	SLH6
Size Nos.	0	1	2	3	4	5	6
Wgt. each, about, oz.	10	12	15	19	23	28	32
No. in a Keg	160	133	107	84	70	57	51
Per keg	$8.30	8.30	8.30	8.30	8.30	8.30	8.30

About 100 lbs. in a Keg; Straight Sizes.

SIMMONS' LIGHT FRONT AND HIND.

Assorted; Half Front and Half Hind.

Nos.	SFH1	SFH2	SFH3	SFH4	SFH5	SFH6
Size Nos.	1	2	3	4	5	6
Per keg	$8.30	8.30	8.30	8.30	8.30	8.30

About 100 lbs. in a Keg; Assorted.

SIMMONS' LIGHT HIND

Assorted Numbers.

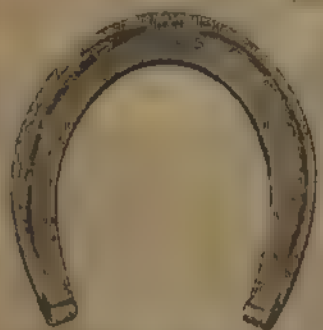
Nos.	SLH12	SLH123	SLH1234	SLH134
Size Nos.	1 and 2	1, 2 and 3	1, 2, 3 and 4	1, 3 and 4
Per keg	$8.30	8.30	8.30	8.30

SIMMONS' LIGHT FRONT AND HIND.

Assorted Front and Hind; Assorted Numbers

Nos.	SFH123	SFH134	SFH123	SFH1234	SFH1345
Size Nos.	2, 1 3	3 and 4	1, 2 and 3	2, 3 and 4	4 [illegible]
Per keg	$8.30	8.30	8.30	8.30	8.30

About 100 lbs. in a Keg, Assorted Sizes.



[illegible] Special Steel [illegible]

SIMMONS RANCHMAN'S Shoes, Beveled; With Nail Holes Punched Out; Without Heel Calks

Nos.	SRAN00	SRAN0	SRAN1	SRAN2	SRAN3
Size Nos.	00	0	1	2	3
Wgt. each, about, oz.	13	16	19	22	26
No. in Keg	133	114	94	75	63
Per keg	$11.20	10.70	10.70	9.70	9.70

About 100 lbs. in a Keg; Straight Sizes

SIMMONS' [illegible] Shoes, Beveled; With Nail Holes Punched Out and Heel Calks Turned up Ready for Use.

Nos.	SUN00	SUN0
Size No.	00	0
No. in Keg	133	114
Per Keg	$11.20	11.20

Nos.	SUN1	SUN2	SUN3
Size Nos.	1	2	3
Wgt. each, about, oz.	18	15	17
No. in Keg	133	107	94
Per keg	$11.20	10.70	10.70

SIMMONS RANCHMAN'S Shoes, Beveled; With Nail Holes Punched Out; Without Heel Calks

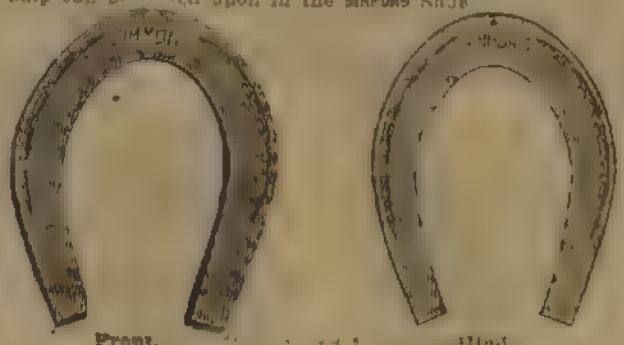
Nos.	SRAN00	SRAN0	SRAN1	SRAN2	SRAN3
Size Nos.	00	0	1	2	3
Wgt. each, about, oz.	13	16	19	22	26
No. in Keg	133	114	94	75	63
Per keg	$10.20	10.20	10.20	9.70	9.70

About 100 lbs. in a Keg; Straight Sizes

HORSE SHOES.

SIMMONS' STEEL.

Made of the Very Best Grade of Open Hearth Steel, what is known as Dead Soft; Manufactured Strictly to Analysis; Exceedingly Uniform in Quality; Full Weight and Count, as well as the Highest Standard of Workmanship can be relied upon in the SIMMONS Shoe



SIMMONS' LIGHT PATTERN, FRONT.

Nos.	SSF0	SSF1	SSF2	SSF3	SSF4	SSF5
Size Nos.	0	1	2	3	4	5
Wgt. each, about, oz.	11	14	17	20	24	28
No. in keg	145	114	94	80	67	54
Per keg	$8.50	8.50	8.00	8.00	8.00	8.00

SIMMONS' LIGHT PATTERN, HIND.

Nos.	SSH0	SSH1	SSH2	SSH3	SSH4	SSH5
Size Nos.	0	1	2	3	4	5
Wgt. each about, oz.	9	11	14	18	22	26
No. in keg	178	146	114	89	73	59
Per keg	$8.50	8.50	8.00	8.00	8.00	8.00

About 100 lbs. in a Keg; Straight Sizes.

SIMMONS' FRONT AND HIND, LIGHT PATTERN.

Assorted, Half Front, Half Hind.

Nos.	SSFH0	SSFH1	SSFH2	SSFH3	SSFH4	SSFH5
Size Nos.	0	1	2	3	4	5
Per keg	$8.50	8.50	8.00	8.00	8.00	8.00

About 100 lbs. in a Keg, Straight Sizes.

SIMMONS' HIND, LIGHT PATTERN

Assorted Numbers.

Nos.	SSH123	SSH123	SSH1234
Size Nos.	1, 2 and 3	1, 2 and 3	1, 2, 3 and 4
Per keg	$8.50	8.50	8.50

SIMMONS' FRONT AND HIND, LIGHT PATTERN

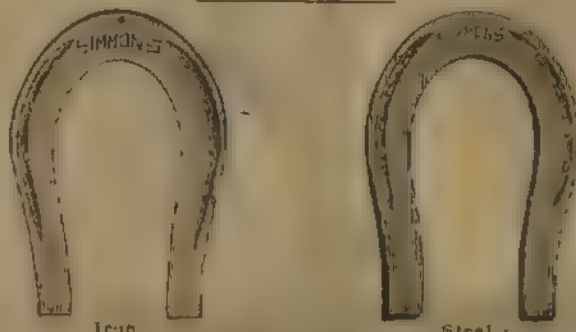
Assorted Front and Hind, Assorted Numbers.

Nos.	SSFH123	SSFH123	SSFH1234
Size Nos.	1, 2 and 3	2 and 3	2, 3 and 4
Per keg	$8.50	8.50	8.50

About 100 lbs. in a Keg, Assorted Sizes.

SOLD ONLY IN FULL KEGS

MULE SHOES.



SIMMONS' IRON

Nos.	SM0	SM1	SM2	SM3	SM4	SM5	SM6
Size Nos.	0	1	2	3	4	5	6
Wgt. each, about, oz.	9	11	14	18	22	27	36
No. in Keg	145	114	94	80	67	54	44
Per keg	$10.70	8.30	8.30	8.30	8.30	8.30	8.30

About 100 lbs. in a Keg, Straight Sizes

Assorted Numbers

Nos.	SM123	SM234
Size Nos.	1, 2 and 3	2, 3 and 4
Per keg	$8.30	8.30

About 100 lbs. in a Keg, Assorted Sizes

SIMMONS' STEEL, LIGHT

Nos.	SSM0	SSM1	SSM2	SSM3	SSM4	SSM5
Size Nos.	0	1	2	3	4	5
Wgt. each, about, oz.	8	10	12	15	19	24
No. in Keg	200	160	133	107	84	67
Per keg	$10.70	8.50	8.00	8.00	8.00	8.00

About 100 lbs. in a Keg, Straight Sizes

Assorted Numbers.

Nos.	SSM123	SSM234
Size Nos.	1, 2 and 3	2, 3 and 4
Per keg	$8.50	8.50

About 100 lbs. in a Keg; Assorted Sizes.

SOLD ONLY IN FULL KEGS

HORSE SHOES.

IRON.

Front. Hind.

BURDEN'S EXTRA LIGHT FRONT.

Nos.	BEF1	BEF2	BEF3	BEF4	BLE5
Size No.	1	2	3	4	5
Wgt. each, abt., oz.	15	15	18	22	25
Number in a Keg	123	103	86	73	63
Per keg	$8.70	8.70	8.70	8.70	8.70

BURDEN'S EXTRA LIGHT HIND.

Nos.	BEH0	BLH1	BEH2	BEH3	BLH4	BEH5
Size, Nos.	0	1	2	3	4	5
Wgt. ea. abt., oz.	10	11	13	16	20	23
No. in a Keg	200	153	123	100	82	70
Per keg	$8.70	8.70	8.70	8.70	8.70	8.70

About 100 lbs. in a Keg; Straight Sizes.

BURDEN'S EXTRA LIGHT FRONT AND HIND.

Assorted; Half Front, Half Hind.

Nos.	BEFH1	BEFH2	BEFH3	BEFH4	BLEH5
Size Nos.	1	2	3	4	5
Per keg	$8.70	8.70	8.70	8.70	8.70

About 100 lbs. in a Keg; Assorted.

BURDEN'S LIGHT FRONT.

Nos.	BLF0	BLF1	BLF2	BLF3	BLF4	BLF5	BLF6
Size Nos.	0	1	2	3	4	5	6
Wgt. ea. abt., oz.	12	14	17	20	24	29	36
No. in a keg	188	114	94	80	67	55	46
Per keg	$8.70	8.70	8.70	8.70	8.70	8.70	8.70

BURDEN'S LIGHT HIND.

Nos.	BLH0	BLH1	BLH2	BLH3	BLH4	BLH5	BLH6
Size Nos.	0	1	2	3	4	5	6
Wgt. each							
No. in a keg	160	133	101	89	73		
Per keg	$8.70	8.70	8.70	8.70	8.70	8.70	8.70

About 100 lbs. in a Keg; Straight Sizes.

BURDEN'S LIGHT FRONT AND HIND.

Assorted; Half Front, Half Hind.

Nos.	BLH1	BLH2	BLH3	BLH4	BLH5	BLH6
Size Nos.	1	2	3	4		
Per keg	$8.70	8.70	8.70	8.70	8.70	8.70

BURDEN'S LIGHT HIND.

Assorted Numbers.

Nos.	BLH12	BLH123	BLH1234	BLH234	BLH12
Size Nos.	1 and 2	1, 2 and 3	1, 2, 3 and 4	2, 3 and 4	1 and 2
Per keg	$8.70	8.70	8.70	8.70	8.70

About 100 lbs. in a Keg; Assorted.

BURDEN'S LIGHT FRONT AND HIND.

Assorted Front and Hind, Assorted Numbers.

Nos.	BFH12	BFH234	BFH123	BFH234	BFH345
Size, Nos.	1 and 2	2 and 4	1, 2 and 3	2, 3 and 4	3, 4 and 5
Per keg	$8.70	8.70	8.70	8.70	8.70

About 100 lbs. in a Keg; Assorted.

SOLD ONLY IN FULL KEGS.

HORSE SHOES.

Front. Hind.

JUNIATA LIGHT PATTERN.

Made of Special Soft Steel, Produced Solely for this Purpose.

JUNIATA FRONT

Nos.	JF0	JF1	JF2	JF3	JF4	JF5
Size Nos.	0	1	2	3	4	5
Wgt. ea. about, ozs.	11	14	17	20	25	29
Number in a keg	145	114	94	80	64	56
Per keg	$9.00	9.00	8.50	8.50	8.50	8.50

JUNIATA HIND

Nos.	JH0	JH1	JH2	JH3	JH4	JH5
Size Nos.	0	1	2	3	4	5
Wgt. each about, ozs.	9	11	14	18	22	27
Number in a keg	178	145	114	89	73	59
Per keg	$9.00	9.00	9.00	8.50	8.50	8.50

About 100 lbs. in a Keg; Straight Sizes.

JUNIATA FRONT AND HIND

ASSORTED; HALF FRONT; HALF HIND

Nos.	JFH0	JFH1	JFH2	JFH3	JFH4	JFH5
Size Nos.	1	1	2	3	4	5
Per keg	$9.00	9.00	8.50	8.50	8.50	8.50

About 100 lbs. in a Keg, Assorted Front and Hind.

JUNIATA HIND.

ASSORTED NUMBERS.

Nos.	JH123	JH234
Size Nos.	1, 2 and 3	2, 3 and 4
Per keg	$9.10	8.80

JUNIATA FRONT AND HIND.

ASSORTED FRONT AND HIND, ASSORTED NUMBERS

Nos.	JFH123	JFH234
Size Nos.	1, 2 and 3	2, 3 and 4
Per keg	$9.10	8.80

About 100 lbs. in a Keg; Assorted Sizes.

SOLD ONLY IN FULL KEGS.

SATISFACTION.

We buy more goods than any other Hardware concern in the world.

We carry a larger assortment than any other Hardware concern in the world.

We sell more goods than any other Hardware concern in the world.

We have more customers than any other Hardware concern in the world.

WHY?

Lowest Prices.

Good Service.

Complete satisfaction of the old-fashioned kind.

We appreciate your business more than any house in the world.

SEND US YOUR MAIL ORDERS.

MULE SHOES.

JUNIATA: STEEL; LIGHT PATTERN

Made of Special Soft Steel, Produced Solely for this Purpose.

Nos.	JM0	JM1	JM2
Size, Nos.	0	1	2
Wgt. ea. abt., oz.	9	[illegible]	14
Number in a keg	176	133	114
Per keg	$11.60	9.00	8.50

Nos.	JM3	JM4	JM5
Size Nos.	3	4	5
Wgt. ea. abt., oz.	16	20	27
Number in a keg	100	76	59
Per keg	$8.50	8.50	8.50

About 100 lbs. in a Keg.

JUNIATA; ASSORTED NUMBERS.

Nos.	JM123	JM234
Size Nos.	1, 2 and 3	2, 3 and 4
Per keg	$9.00	8.50

About 100 lbs. in a Keg, Assorted Sizes

SOLD ONLY IN FULL KEGS

BURDEN'S IRON

Nos.	BM0	BM1	BM2	BM3
Size Nos.	0	1	2	3
Weight each about, oz.	9	12	14	17
No. in a keg	178	133	114	100
Per keg	$8.70	8.70	8.70	8.70

Nos.	BM4	BM5	BM6
Size Nos.	4	5	6
Weight ea. abt., oz.	23	27	30
Number in a keg	70	59	53
Per keg	$8.70	8.70	8.70

About 100 lbs. in a Keg.

BURDEN'S ASSORTED NUMBERS.

Nos.	BM123	BM234
Size Nos.	1 2 and 3	2, 3 and 4
Per keg	$8.70	8.70

About 100 lbs. in a Keg; Assorted Sizes

SOLD ONLY IN FULL KEGS

TOE CALKS.

Country. City

COUNTRY PATTERN; Bessemer Steel.

Nos.	C/1	C/2	C/3	C/4	C/5	C/6
Size Nos.	1	2	3	4	5	6
Size, in.	1½x⅜	1⅝x⅝	2x⅞	2¼x¾	2½x⅞	2¾x1
Average No. Calks to the lb.	17	13	8	6	5	4
Per pound	$0.12	.12	.12	.12	.12	.12

CITY PATTERN; Bessemer Steel.

Nos.	X1	X2	X3	X4	X5	X6
Size Nos.	1	2	3	4	5	6
Size, in.	1½x⅜	1⅝x⅝	2x⅞	2¼x¾	2½x⅞	2¾x1
Average No. Calks to the lb.	15	10	7	5	4	3
Per pound	$0.12	.12	.12	.12	.12	.12

Twenty-five Pounds in a Wood Box

NOTE—The Same Number of Toe Calk is Generally Used for the Same Number of Horse Shoe. In the Cold Climate, where there is Considerable Ice and Snow, Sharp Toe Calks are Used. Blunt or City Toe Calks are Usually Used in Large Cities where there is Heavy Traffic, but in the Country Districts where Medium Sized Shoes are Mostly used, the Medium or Country Toe Calk is Preferred. The Medium or Country Pattern serve the all-round Purpose the Best.

HORSE SHOE NAILS.

J. I. C.° RACER.

COLD ROLLED, REGULAR PATTERN; FINISHED.

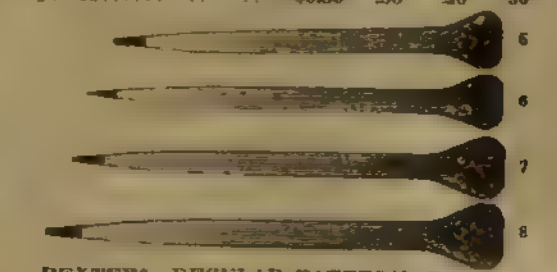
Made of Open Hearth Steel, Cold Rolled Process, from Head to Point, which Toughens the Nail and Adds Largely to the Tensile Strength

Nos.	JIC/5	JIC/6	JIC/7	JIC/8	JIC/9
Per pound	$0.24	.24	.24	.24	.24

STAR—REGULAR PATTERN.

Made of Open Hearth Steel, Cold Forged.

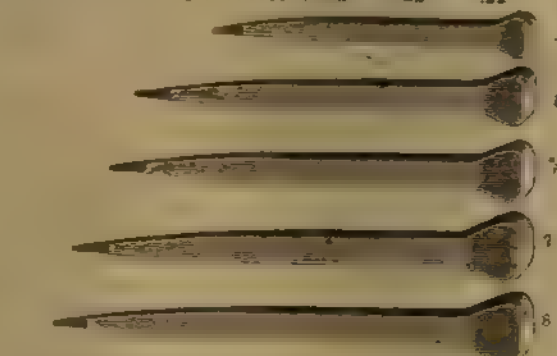
Nos.	ST5	ST6	ST7	ST8	ST9
Per pound	$0.30	.30	.30	.30	.30



DEXTER—REGULAR PATTERN; FINISHED.

Hot Forged Basic Steel.

Nos.	D5	D6	D7	D8
Per pound	$0.22	.22	.22	.22



AUSABLE—REGULAR PATTERN; FINISHED.

Made of Open Hearth Steel, Hot Forged; Cold Point.

Nos.	A4	A5	A6	A7	A8
Per pound	$0.53½	.34	.31	.29	.28

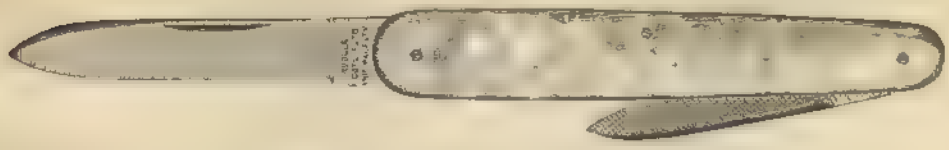
5 lbs. in a Paper Box; 25 lbs. in a Wood Box.

Cuts Full Size.

POCKET KNIVES

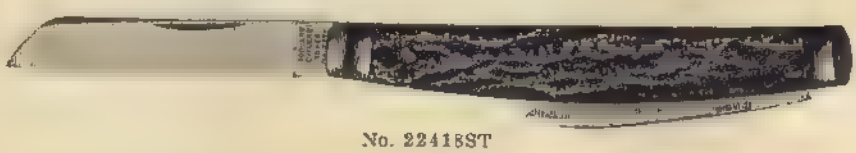
Cuts Full Size

JOSEPH RODGERS & SONS



No. 21798P—Two Blades, 3¼ in. Pearl Handle Brass Lined, Crocus Polished. . . . . Per Dozen **$28 00**

One-half Dozen in a Box



No. 22418ST

No. 22418ST—Two Blades, 3 in Genuine Stag Handle, Brass Lined, Iron Bolsters, Fine Glazed. . . . . Per Dozen **$14.00**
No. 21418P —Two Blades, 3 in Pearl Handle, Brass Lined, Iron Bolsters, Fine Glazed. **25.00**

One-half Dozen in a Box

No. 21797ST

No. 21797ST—Two Blades, 3¼ in Genuine Stag Handle, Brass Lined, Crocus Polished. . . . . Per Dozen **$16 00**
No. 21797 I —Two Blades, 3¼ in Iris Handle, Brass Lined, Crocus Polished **16 00**

One-half Dozen in a Box

No. 21860ST—Three Blades, 3¼ in Genuine Stag Handle, Brass Lined, Crocus Polished. . . . . Per Dozen **$25.00**

One-half Dozen in a Box

No. 22437ST Three Blades, 3⅝ in. Genuine Stag Handle, Brass Lined, German Silver Tips, Crocus Polished. . Per Dozen **$35.00**

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

JOSEPH RODGERS & SONS

Per Dozen

No. 21785ST—Three Blades, 3¼ in. Genuine Stag Handle, Brass Lined, German Silver Tips, Crocus Polished. $30.00

One-half Dozen in a Box

Per Dozen

No. 21860P—Three Blades, 3¼ in. Pearl Handle, Brass Lined, Crocus Polished. . . . $36.00

One-half Dozen in a Box

Per Dozen

No. 24785P—Three Blades, 3¼ in. Pearl Handle, Brass Lined, German Silver Tips, Crocus Polished. $40.00

One-half Dozen in a Box

Per Dozen

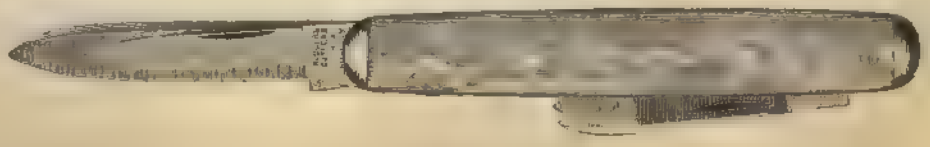
No. 160728T—Three Blades, 3⅝ in. Genuine Stag Handle, Brass Lined, Crocus Polished $26.00

One-half Dozen in a Box

Per Dozen

No. 24606ST—Three Blades, 3⅝ in. Genuine Stag Handle, Brass Lined, Iron Bolsters, German Silver Shield, Fine Glazed $36.00

One-half Dozen in a Box



Per Dozen

No. 24777P—Four Blades, 3¼ in. Pearl Handle, Brass Lined German Silver Tips, Crocus Polished. $44.00

One-half Dozen in a Box

POCKET KNIVES

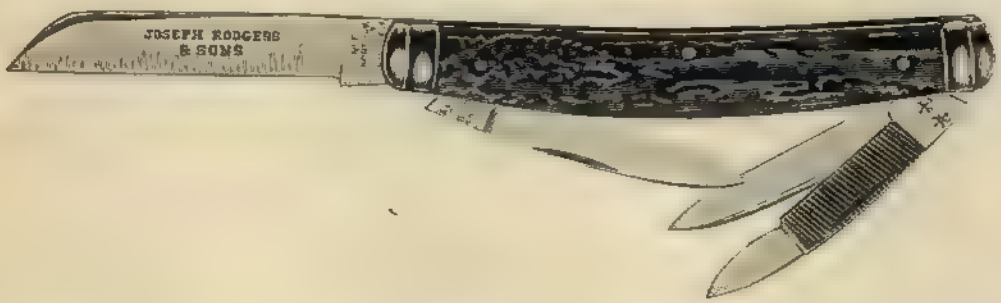
Cuts Full Size

JOSEPH RODGERS & SONS

Per Dozen

No. 22445ST—Four Blades, 3¼ in. Genuine Stag Handle, Iron Lined, Iron Bolsters, Glazed.. .. ..**$26.00**

One-half Dozen in a Box



Per Dozen

No. 22445-3½—Four Blades, 3½ in. Genuine Stag Handle, Iron Lined, Iron Bolsters, Fine Glazed.....**$28.00**

One-half Dozen in a Box

Per Dozen

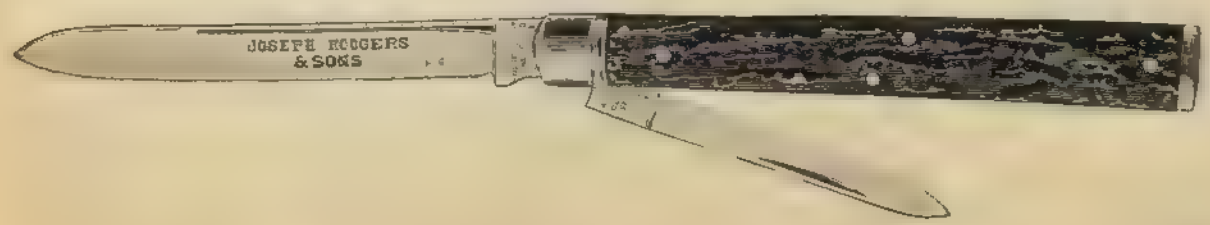
No. 12552ST-BL—Four Blades, 3¼ in Genuine Stag Handle, Brass Lined, Iron Bolsters, Crocus Polished...**$32.00**

One-half Dozen in a Box

Per Dozen

No. 12353P Four Blades 3¼ in. Pearl Handle, Brass Lined Iron Bolsters, Crocus Polished..... .....**$37.00**

One-half Dozen in a Box



Per Dozen

No. 20766ST Two Blades, 3¾ in Genuine Stag Handle, Brass Lined, Iron Bolsters, Crocus Polished... . . .**$26 00**

One-half Dozen in a Box

DISPLAY STANDS.

KEEN KUTTER*

FOR DISPLAYING SCISSORS AND SHEARS.

Stand and Base made of Oak, Mission Finish; Galvanized Iron Canopy, Painted Green on Top and White Underneath; All other Metal Parts Nickel Plated and Polished.

Height over all 35 in.; Width 23 in.; Size of Base 12x12 in.

No. K168—Will Hold 168 (14 dozen) Scissors and Shears, Assorted; 7 dozen on each side..... Each $15.00

Weight Each, Boxed, about 44 lbs.

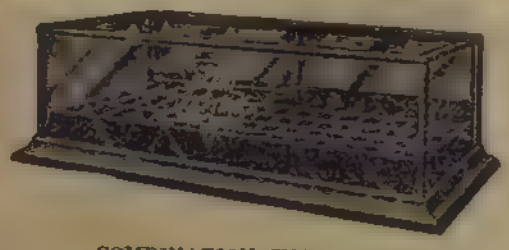
SHOW CASES.

FOR DISPLAYING CUTLERY.

Golden Oak; Extra Heavy Frame and Base; 53½ in. Long, 28 in. Wide, 17 in. High; One Piece Double Strength "A" Quality Glass Top, Front and Ends, Raised Platform 4 in. High; Green Silk Plush Lined, with Spaces for 86 Patterns of Pocket Knives; Mirrored Sliding Doors in Rear; Two Partitioned Drawers for Duplicate Stock.

No. K53½—With KEEN KUTTER Etching.....Each, $36.00
No. P53½—PLAIN, no Etching.....Each, 30.00

Weight Each, Crated, about 115 lbs.



COMBINATION SHOW CASE.

Golden Oak; Extra Heavy Frame and Base; 63½ in. Long, 28 in. Wide, 17 in High; One Piece Double Strength "A" Quality Glass Top, Front and Ends, Raised Platform 4 in. High; Green Silk Plush Lined, with Spaces for 54 Patterns of Pocket Knives, 12 Patterns of Scissors and Shears, 4 Patterns of Razors; Mirrored Sliding Doors in Rear; Two Partitioned Drawers for Duplicate Stock.

No. K1½—With KEEN KUTTER Etching.....Each, $36.00
No. P1½—With OAK LEAF Etching.....Each, 36.00
No. P1½—PLAIN, no Etching.....Each. 30.00

Weight Each, Crated, about 115 lbs.

SHOW CASES.

FOR DISPLAYING CUTLERY.

Solid Oak Frame, 36 in. Long, 24 in. Wide, 12 in. High; One Piece Double Strength "A" Quality Glass Top, Front and Ends; Mirror Lined Sliding Doors in Rear.

No. K53½—With KEEN KUTTER Etching.....Each, $11.00
No. K53½—With OAK LEAF Etching.....Each, 11.00
No. P53½—PLAIN, no Etching.....Each. 11.00

Weight Each, Crated, about 55 lbs.

CUTLERY CASE.

Solid Oak Frame, 35 in. High, 19 in. Wide, 13 in. Deep; Double Strength "A" Quality Glass throughout; 3 Glass Shelves; Bottom lined with Felt; Transparent Glass Door, with Lock and Key.

Each

No. 4[illegible]—Weight each, crated about 45 lbs. $10.50

SHEAR AND SCISSOR CASE.

Solid Oak Frame, 31 in. High, 13 in. Wide, 13 in. Deep; Double Strength "A" Quality Glass throughout; Glass Door, with Lock and Key, Brass Revolving Display Frame, with Adjustable Cross Arms; Frame will Display 24 Pairs of Shears and 48 Pairs of Scissors.

Each

No. K61½—With KEEN KUTTER Etching.. $16.00
No. P61½—PLAIN, No Etching 16.00

Weight, Each, Crated, about 40 lbs.

OUTSIDE DISPLAY CASE

FOR DISPLAYING POCKET CUTLERY, RAZORS, SCISSORS AND SHEARS.

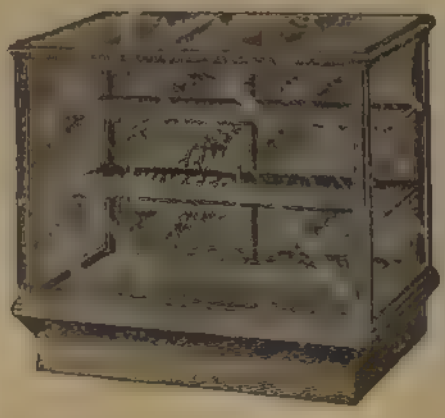
KEEN KUTTER*

Brass Frame with Copper Strips to Prevent Breakage; 50 in. High, 6½ in. Wide, 5 in. Deep; One Piece Best Quality Polished Bevel Plate Glass Front, Etched with KEEN KUTTER Trade Mark; Two Sides One Piece Plate Glass; Solid Wood Top and Base; For Displaying 24 Pocket Knives, 6 Razors, 6 Pairs of Scissors and 6 Pairs Shears.

No. K90—Weight each about 50 lbs. Each, $22.00

One in a Wood Box.

SHOW CASES.



Made of Genuine Oak, Golden Oak Finish; 42 in. High, 24 in. Wide; Best Quality Polished Plate Glass Top, 20 in. Wide, ⅛ in. Bevel; Receding Base, 8 in. High; Doors Fitted with Ball Bearing Rollers on Steel Track; 2 Shelves (10 and 14 inches Wide) Solid Oak; Improved Nickel Plated Adjustable Brackets; Bottom 3-ply Veneered.

No. K840—With KEEN KUTTER* Etching.

Size, feet	4	6	8
Weight each, lbs.	175	275	375
Each	$36.00	50.00	64.00

No. P840—With OAK LEAF* Etching.

Size, feet	4	6	8
Weight each, lbs.	175	275	375
Each	$36.00	50.00	64.00

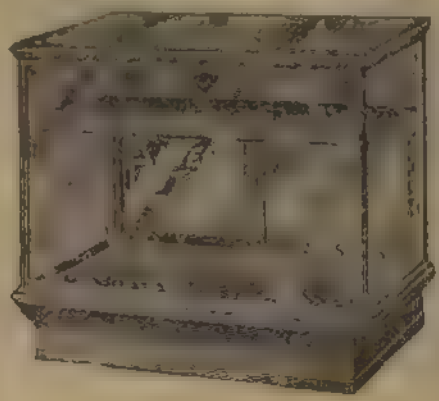
No. 1840—PLAIN, no Etching.

Size, feet	4	6	8
Weight each, lbs	175	275	375
Each	$36.00	50.00	64.00

No. 1SW—Show Case Shelves. For Above Cases

	4	6	8
Each	$2.00	2.50	3.00

NOTE—These Cases are shipped KNOCKED DOWN, unless otherwise ordered so as to take the cheapest possible rate of freight.



Made of Genuine Oak, Golden Oak Finish; 42 in. High, 24 in. Wide; Best Quality Polished Plate Glass Top, 20 in. Wide, ⅛ in. Bevel; Receding Base, 8 in. High; Doors fitted with Ball Bearing Rollers on Steel Track; One Solid Wood Shelf 18 inches Wide (entire Inside Width of Case); Bottom 3-ply Veneered.

No. K841 With KEEN KUTTER* Etching.

	4	6	8
Weight each, lbs.	175	275	375
Each	$36.00	50.00	64.00

No. P841 PLAIN, no Etching.

Size, feet	4	6	8
Weight each, lbs.	175	275	375
Each	$36.00	50.00	64.00

NOTE—These Cases are shipped KNOCKED DOWN, unless otherwise ordered, so as to take the cheapest possible rate of freight.

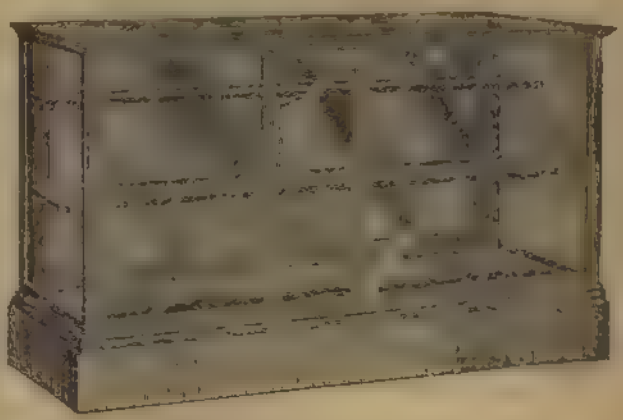
4 FOOT Cases have ONE PIECE Top and Front; 6 AND 8 FOOT Cases have TWO PIECE Top and Front.

SHOW CASES.

Golden Oak Finish, 42 in. High; Best Quality Polished Plate Glass overlapping Top, One Piece, 24 in. Wide, Edges Ground and Polished, Double Strength "A" Quality Glass Front Ends and Doors; Doors fitted with Roller Bearings on Steel Track; Bottom and 2 Shelves (10 and 14 in. Wide), Highly Finished Three Ply Veneered Oak. Shelves with ⅞ in. Mould around Front and Ends; Nickel Plated Steel Keyhole Standards, fitted with Nickel Plated Steel Adjustable Brackets.

No. 813—RECEDING OAK BASE, 8 IN. HIGH.

Length, feet	4	6	8
Weight about, lbs.	250	350	450
Each	$50.00	70.00	86.00



No. 825—CREOLE MARBLE BASE, 6 IN. HIGH.

Length, feet	4	6	8
Weight about, lbs.	250	350	450
Each	$57.00	84.00	109.00

Cases in 4 ft. Lengths, One Piece Top and Front. Cases 6 and 8 ft. Lengths, One Piece Top, Two Piece Front.

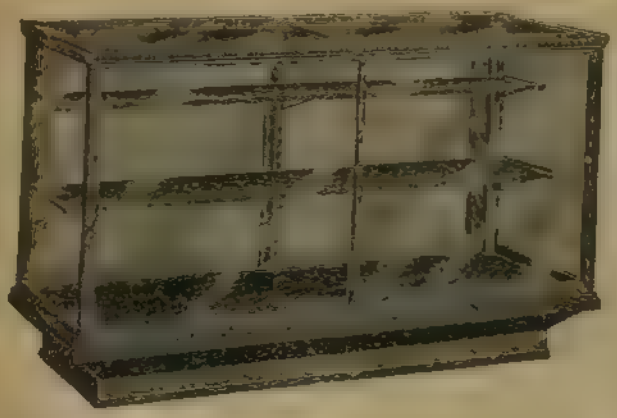
NOTE.—Above Show Cases can be etched with the KEEN KUTTER Trade Mark on front Lights without Extra Charge, when so ordered.

NOTE.—These Show Cases are carried in stock (at Factory) only in Golden Oak Finish and sizes specified. Write for quotations on other sizes than those specified.

NOTE—Cases Shipped KNOCKED DOWN unless otherwise ordered. We will replace all Glass broken in transit, f. o. b. destination (without charge), if reported within five days after Cases are received. It is necessary to send us the Express Bill bearing notation that cases were received in damaged condition.

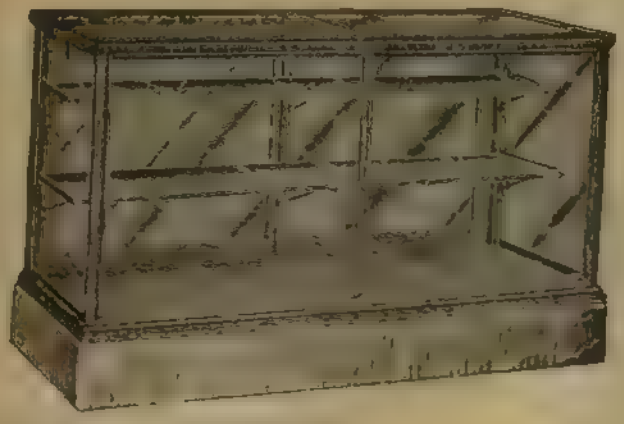
SHOW CASES.

Golden Oak Finish; Top, Front and End Mould, Quarter Sawed; 42 in. High; Best Quality Polished Plate Glass Top (⅛ in. Bevel) 22 in. Wide; Double Strength "A" Quality Glass Front, Ends and Doors; Doors fitted with Roller Bearings on Steel Track; Bottom and 2 Shelves (10 and 14 in. Wide), Highly Finished Three Ply Veneered Oak; Shelves, with ⅝ in. Mould around Front and Ends; Nickel Plated Steel Keyhole Standards, fitted with Nickel Plated Steel Adjustable Brackets.



No. 800—RECEDING OAK BASE, 8 IN. HIGH; WIDTH OF CASE AT TOP 26 IN.

Length, feet	4	6	8	10
Weight about, lbs	220	330	440	550
Each	$40.00	54.00	72.00	110.00



No. 805—CREOLE MARBLE BASE, 6 IN. HIGH; WIDTH OF CASE AT TOP 24 IN.

Length, feet	4	6	8	10
Weight about, lbs	240	350	475	600
Each	$48.00	63.00	80.00	108.00

Cases in 4 ft. Lengths, One Piece Top and Front; Cases 6 and 8 ft. Lengths, Two Piece Top and Front, 10 ft. Lengths, Three Piece Top and Front.

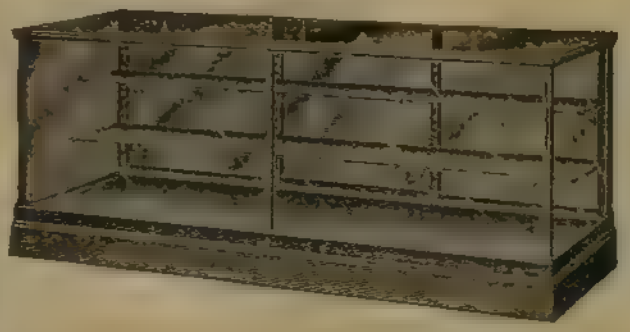
NOTE—Above Show Cases can be etched with *KUTTER* Trade Mark on front Lights without Extra Charge, when so ordered.

NOTE—These Show Cases are carried in stock (at Factory) only in Golden Oak Finish and sizes specified. Write for quotations on other sizes than those specified.

NOTE—Cases Shipped KNOCKED DOWN unless otherwise ordered. We will replace all Glass broken in transit, f. o. b. destination (without charge), if reported within five days after Cases are received. It is necessary to send us the Expense Bill bearing notation that cases were received in damaged condition.

SHOW CASES.

ONLY SHIPPED SET UP.



Made of Genuine Oak, Golden Oak Finish; 42 in. High, 26½ in. Wide; Best Quality Polished Bevel Plate Glass Top in One Piece, 24 in. Wide, ⅛ in. Bevel; Clear Glass Sliding Doors at Back on Steel Track and Ball Bearing Rollers; 2 Shelves (10 and 14 in. Wide) on Nickel Plated Adjustable Brackets.

No. 830—DOUBLE STRENGTH GLASS FRONT AND ENDS.

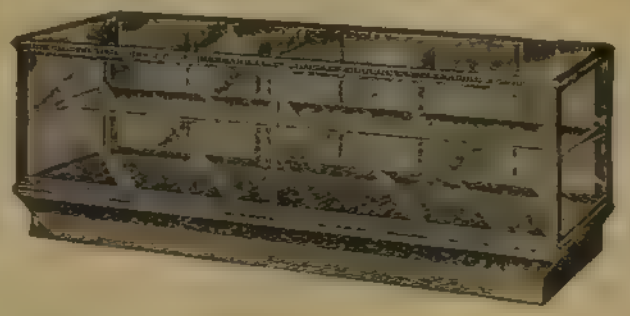
Length, feet	4	6	8	10
Weight each about, lbs	200	310	400	500
Each	$60.00	80.00	100.00	124.00

No. 835—PLAIN PLATE GLASS FRONT AND ENDS.

Length, feet	4	6	8	10
Weight each about, lbs	280	420	560	750
Each	$90.00	114.00	130.00	170.00

Note—ABOVE CASES CAN ONLY BE SHIPPED SET UP.

COUNTER SHOW CASES.



Made of Genuine Oak, Golden Oak Finish; 34 IN. HIGH, 28 In. Wide; Best Quality PLAIN Plate Glass Top 24 in. Wide; Double Strength Glass Front and Ends; Receding Base; Clear Glass Sliding Doors at Back on Steel Track and Ball Bearing Rollers; One Shelf (14 in. Wide); Bottom Three Ply Veneered Lumber and Finished to Match Color of Case. Shelf on Nickel Plated Adjustable Brackets and Back Rails.

No. 860—DOUBLE STRENGTH GLASS FRONT AND ENDS.

Length, feet	4	6	8	10
Weight each about, lbs	200	300	400	500
Each	$40.00	54.00	72.00	96.00

NOTE—Cases in 4 Foot Lengths, One Piece Top and Front, 6 and 8 Foot Lengths, Two Piece Top and Front, and 10 Foot Lengths, Three Piece Top and Front.

NOTE—Cases Shipped KNOCKED DOWN unless otherwise ordered; We will replace Glass Broken in Transit Without Charge, if reported within Five Days after Cases are received. It is necessary to send us the Expense Bill bearing notation by the agent that cases were delivered in a damaged condition.

AXES

All our Axes, both Handled and Unhandled, are made with Bits of the finest Double Refined Crucible Cast Steel, and Soft Steel Polls. They are forged and tempered exclusively with natural gas. Natural gas is an absolutely pure fuel, and all tools forged and tempered with this fuel are stronger, tougher, and hold a keener cutting edge than axes made in any other way. Each and every one of these Axes are carefully inspected before leaving the factory, and the cutting edges are ground sharp ready for use. They can be relied on as the best Chopping Axes on the market.

KELLY PERFECT

Single Bit, Dayton Pattern
No. 10—Double Refined Crucible Steel Bit, Gas Tempered, Polished, Enameled Bevel and Labeled

Weights, Asst., Lbs.	3¼ to 3¾	3¾ to 4½	4 to 5
Per Dozen	$16.50	17.00	17.50

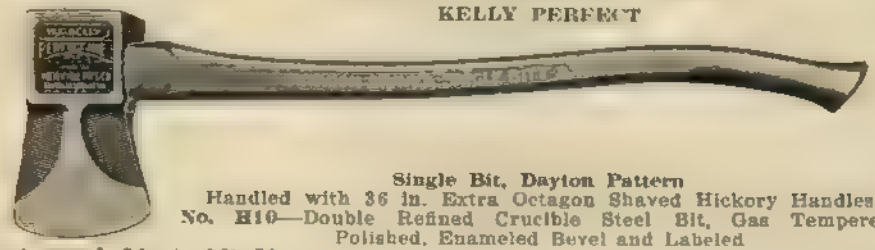
Double Bit, Western Pattern
No. 1010—Double Refined Crucible Steel Bit, Gas Tempered, Polished, Enameled Bevel and Labeled

Weights, Asst., Lbs.	3¼ to 3¾	3½ to 4½	4 to 5
Per Dozen	$23 50	24 00	24.50

Average Weight Per Dozen 50 Pounds
One Dozen in a Box

MEN'S HANDLED AXES

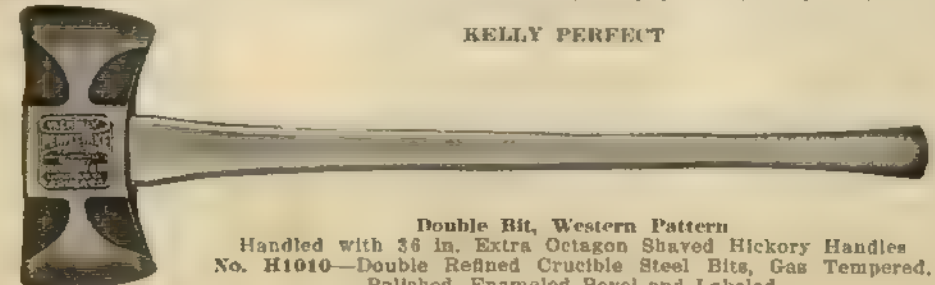
KELLY PERFECT



Single Bit, Dayton Pattern
Handled with 36 in. Extra Octagon Shaved Hickory Handles
No. H10—Double Refined Crucible Steel Bit, Gas Tempered, Polished, Enameled Bevel and Labeled

	Per Dozen
Weights, Assorted, 3¼ to 3¾ Lbs.	$21 00
Weights, Assorted, 3½ to 4½ Lbs.	21 50
Weights, Assorted, 4 to 5 Lbs.	22 00

KELLY PERFECT



Double Bit, Western Pattern
Handled with 36 in. Extra Octagon Shaved Hickory Handles
No. H1010—Double Refined Crucible Steel Bits, Gas Tempered, Polished, Enameled Bevel and Labeled

	Per Dozen
Weights, Assorted, 3¼ to 3¾ Lbs.	$28 00
Weights, Assorted, 3½ to 4½ Lbs.	28.50
Weights, Assorted, 4 to 5 Lbs.	29 00

Average Weight Per Dozen 75 Pounds
One-half Dozen in a Crate

AXES

All our Axes, both Handled and Unhandled, are made with Bits of the finest Double Refined Crucible Cast Steel, and Soft Steel Polls. They are forged and tempered exclusively with natural gas. Natural gas is an absolutely pure fuel, and all tools forged and tempered with this fuel, are stronger, tougher and hold a keener cutting edge than axes made in any other way. Each and every one of these Axes are carefully inspected before leaving the factory, and the cutting edges are ground sharp ready for use. They can be relied on as the best Chopping Axes on the market.

KELLY STANDARD

Single Bit, Dayton Pattern

No. 20—Refined Crucible Steel Bit, Gas Tempered, Enameled Red, Polished Bit and Poll, Labeled

Weights, Asst., Lbs.	3¼ to 3¾	3⅞ to 4½	4 to 5
Per Dozen	$15 50	16 00	16 50

Double Bit, Western Pattern

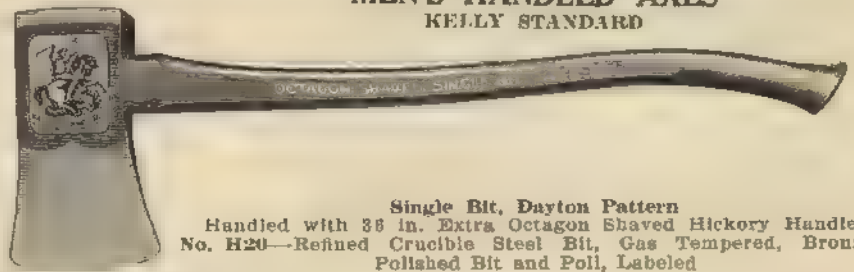
No. 2020 Refined Crucible Steel Bit, Gas Tempered, Enameled Red, Polished Bit and Poll, Labeled

Weights, Asst., Lbs.	3¼ to 3¾	3⅞ to 4½	4 to 5
Per Dozen	$21 50	22 00	22 50

Average Weight Per Dozen 56 Pounds
One Dozen in a Box

MEN'S HANDLED AXES

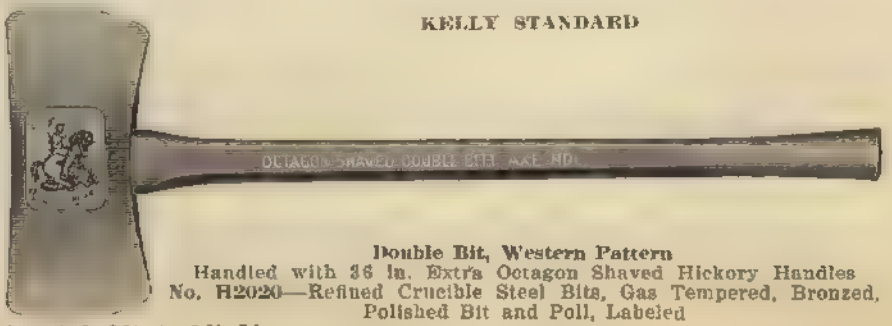
KELLY STANDARD



Single Bit, Dayton Pattern
Handled with 36 in. Extra Octagon Shaved Hickory Handles
No. H20—Refined Crucible Steel Bit, Gas Tempered, Bronzed, Polished Bit and Poll, Labeled

	Per Dozen
Weights, Assorted, 3¼ to 3¾ Lbs.	$20.00
Weights, Assorted, 3⅞ to 4½ Lbs.	20.50
Weights, Assorted, 4 to 5 Lbs.	21.00

KELLY STANDARD



Double Bit, Western Pattern
Handled with 36 in. Extra Octagon Shaved Hickory Handles
No. H2020—Refined Crucible Steel Bits, Gas Tempered, Bronzed, Polished Bit and Poll, Labeled

	Per Dozen
Weights, Assorted, 3¼ to 3¾ Lbs.	$26 00
Weights, Assorted, 3⅞ to 4½ Lbs.	26 50
Weights, Assorted, 4 to 5 Lbs.	27 00

Average Weight Per Dozen 75 Pounds
One-half Dozen in a Crate

AXES

KELLY FLINT EDGE

Single Bit, Standard Shape
No. 10—Refined Crucible Steel Bit, Gas Tempered, Natural Black Finish, Labeled

Weights, Assorted, Lbs	3¼ to 3⅝	3½ to 4½	4 to 5
Per Dozen	$13.50	16 00	16.50

Average Weight Per Dozen 50 Pounds
One Dozen in a Box

MEN'S HANDLED AXES

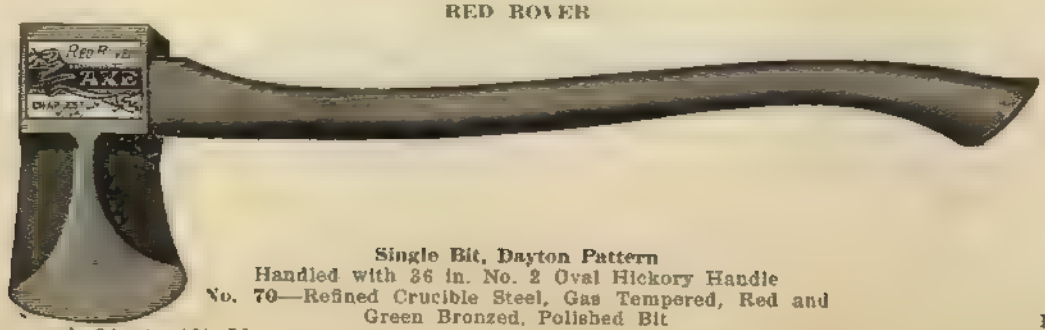
KELLY FLINT EDGE

Single Bit, Standard Shape
Handled with 36 in. Octagon Shaved Hickory Handle
No. H40—Refined Crucible Steel Bit Gas Tempered, Natural Black Finish, Labeled

	Per Dozen
Weights, Assorted, 3¼ to 3⅝ Lbs	$20 00
Weights, Assorted, 3½ to 4½ Lbs	20 50
Weights, Assorted, 4 to 5 Lbs	21 00

Average Weight Per Dozen 75 Pounds
One-half Dozen in a Crate

RED ROVER



Single Bit, Dayton Pattern
Handled with 36 in. No. 2 Oval Hickory Handle
No. 70—Refined Crucible Steel, Gas Tempered, Red and Green Bronzed, Polished Bit

	Per Dozen
Weights Assorted, 3½ to 4½ Lbs	$18.00
Weights Assorted, 4 to 5 Lbs	18.50

Average Weight Per Dozen 75 Pounds
One Dozen in a Crate

AMERICAN DOUBLE BARREL GUNS.

L. C. SMITH'S NEW MODEL HAMMER.

Model 1900

BORED FOR NITRO POWDER.

WITHOUT EJECTOR.

BARRELS—Both Barrels Full Choke Bored; Matted Extension Rib; Cylindrical Locking Bolt, Tapered to allow for Wear, Self-Adjusting, making it IMPOSSIBLE FOR THEM TO WORK LOOSE.
STOCK—Selected Oil Finished Walnut Stock; Checkered Half Pistol Grip; Corrugated Rubber Butt Plate; Full Compensating Snap Fore end, Checkered.
FRAME—Flat Frame; Special Rebounding Locks. New Low Style Circular Hammers, SOLID Plungers; Frame, Hammers and Top Lever, Case Hardened; Triggers and Trigger Guards Blued.

The Strongest Gun Built. Opens at Full Cock.

ROYAL STEEL BARRELS.

ROYAL BLUED STEEL BARRELS are made from Carefully Selected Steel, Toughened and Hardened. In Point of Construction are similar to Whitworth Fluid, Crown and Sieman's Steel Barrels.

	Each
No. SH12B—12 GAUGE, 26, 30 and 32 in. Barrels; Wgt. each 7½ to 8½ lbs.	$31.00
No. SH16B—16 GAUGE; 28 and 30 in. Barrels. Weight each 6¾ to 7 lbs.	31.00

FINE ENGLISH STUB TWIST BARRELS

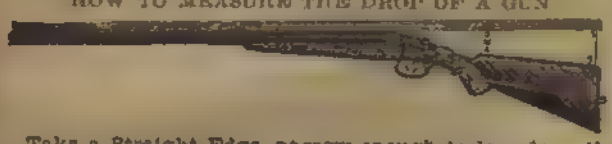
	Each
No. SH12T—12 GAUGE; 28, 30 and 32 in. Barrels; Wgt each 7 to 8½ lbs.	$33.00
No. SH16T—16 GAUGE; 28 and 30 in. Barrels; Weight each 6¾ to 7 lbs.	33.00

FINE DAMASCUS STEEL BARRELS.

	Each
No. SH12D—12 GAUGE; 28, 30 and 32 in. Barrels; Weight each 7 to 8½ lbs.	$37.00
No. SH16D—16 GAUGE; 28 and 30 in. Barrels; Weight each 6¾ to 7 lbs.	37.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 125 lbs

HOW TO MEASURE THE DROP OF A GUN



Take a Straight Edge, narrow enough to lay along the rib of the Gun and long enough to reach from the sight of the Gun over and beyond the Butt. After being particular that the straight edge lies along the rib, rule to obtain at Muzzle and Breech, take the measurement from the sight which will give the Weight at Muzzle. The drop at Butt for Hunt. Then measure from 3 to 4, which will give you the proper Comb. The length of stock is measured from center of Front Trigger to center of Butt Plate, or from 5 to 6.

AMERICAN DOUBLE BARREL GUNS.

L. C. SMITH'S HAMMERLESS.

BARRELS—Both Barrels Choke Bored for Nitro Powder, Matted Extension Rib; Cylindrical Locking Bolt, Tapered to allow for Wear, Self-Adjusting, MAKING IT IMPOSSIBLE TO WORK LOOSE.
STOCK—Half Pistol Grip; Checkered; Corrugated Rubber Butt Plate; Checkered Full Compensating Snap Fore-end.
FRAME—Case Hardened Frame; SOLID Plungers; Top Snap; Blued Trimmings.

WITHOUT EJECTOR

Crown or Damascus Steel Barrels; Imported English Oil Finished Walnut Stock

	Each
No. 2K12—12 GAUGE, 28, 30 and 32 in. Barrels; Weight each 6¾ to 9 lbs.	$108.40
No. 2K16—16 GAUGE, 28 and 30 in. Barrels; Weight each about 7 lbs.	108.40

Damascus Barrels; Oil Finished English Walnut Stock

WITHOUT EJECTOR.

	Each
No. 1K12—12 GAUGE; 26, 28, 30 and 32 in. Barrels. Weight each 7 to 9 lbs.	$82.90
No. 1K16—16 GAUGE; 26, 28 and 30 in. Barrels. Weight each about 7 lbs.	82.90

WITH AUTOMATIC EJECTOR

	Each
No. 1KE12—12 GAUGE, 26, 28, 30 and 32 in. Barrels. Weight each 7 lbs.	$102.00
No. 1KE16—16 GAUGE; 26, 28 and 30 in. Barrels. Weight each about 7 lbs.	102.00

We are fully equipped in our Gun Shop to Modify Choke, and Cylinder bore all Guns

No. OE12.

Damascus Barrels; Selected Oil Finished Walnut Stock.

WITHOUT EJECTOR.

	Each
No. 0K12—12 GAUGE; 28, 30 and 32 in. Barrels. Weight each 7 to 9 lbs.	$63.70
No. 0K16—16 GAUGE, 28 and 30 in. Barrels. Weight each 6 to 7½ lbs.	63.70

WITH AUTOMATIC EJECTOR

	Each
No. OE12—12 GAUGE; 28 and 30 in. Barrels. Weight each 7 to 8½ lbs.	$82.90
No. OE16—16 GAUGE; 28 and 30 in. Barrels; Weight each about 7 lbs.	82.90

One in a Cardboard Box, Ten in a Case; Weight per Case about 130 lbs.

AMERICAN DOUBLE BARREL GUNS.

L. C. SMITH'S HAMMERLESS.

CHOKE BORED FOR NITRO POWDER

BARRELS—Armor Blued Steel Barrels; Both Barrels Full Choke Bored, for Nitro Powder, Matted Extension Rib; Cylindrical Locking Bolt, Tapered to allow for Wear, Self-Adjusting, MAKING IT IMPOSSIBLE TO WORK LOOSE.

STOCK—Selected Oil Finish Walnut Stock; Checkered Half Pistol Grip, Corrugated Rubber Butt Plate, Checkered Fore-end.

FRAME—Case Hardened Frame; SOLID Plungers; Top Lever Case Hardened, Other Trimmings Blued.

WITHOUT EJECTOR

Full Compensating Snap Fore-end

	Each
No. 00K12—12 GAUGE; 28, 30 and 32 in. Barrels; Weight [illegible] 28 in., 7½ to 7¾ lbs.; 30 in., 7 lbs. 10 oz. to 7½ lbs.; 32 in., 7¾ to 8½ lbs.	$42.70
No. 00K16—16 GAUGE; 28 and 30 in. Barrels; Weight each 6 to 7½ lbs.	42.70
No. 00K20—20 GAUGE; 26 in. Barrels; Weight each 5¾ to 7 lbs.	42.70

WITH AUTOMATIC EJECTOR.

Full Compensating Snap Fore-end, with Positive Lock.

No. 00KE12—12 GAUGE; 28, 30 and 32 in. Barrels. Weight each, 28 in., 7½ to 7¾ lbs.; 30 in., 7 lbs. 10 oz. to 7¾ lbs.; 32 in., 7¾ to 8½ lbs.	$60.00
No. 00KE16—16 GAUGE; 28 and 30 in. Barrels; Weight each 6 to 7½ lbs.	60.00
No. 00K20E20—20 GAUGE; 26 in. Barrel Weight each 5¾ to 7 lbs.	60.00

One in a Cardboard Box, Ten in a Case, Weight per Case about 130 lbs

Showing the Hunter One Trigger on the L. C. Smith Hammerless Gun

‡*A Single Trigger for Double Barrel Smith's Hammerless Guns, so constructed that by the pushing of a Button the shooter can shoot Right and Left or Left and Right, or Rights or Lefts. The shooter has the same control over the firing as in the Two Trigger Gun.*

‡*We will accept orders for any grade of Smith's Hammerless Guns fitted with the Hunter One Trigger, for Direct Shipment only and at an additional cost of $45.00.*

‡AMERICAN DOUBLE BARREL GUNS.

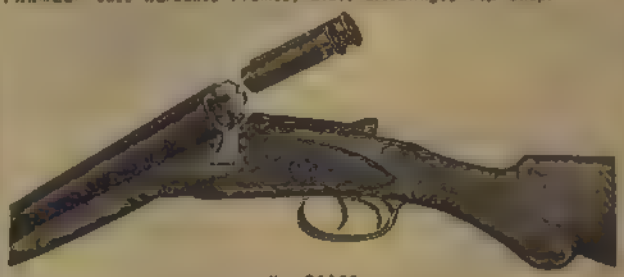
L. C. SMITH'S FINE HAMMERLESS.

BORED FOR NITRO POWDER.

BARRELS—Both Barrels Choke Bored; Cylindrical Locking Bolt, Tapered to allow for Wear, Self Adjusting, MAKING IT IMPOSSIBLE TO WORK LOOSE. Matted Extension Rib.

STOCKS—Walnut Stocks; Corrugated Rubber Butt Plate; Full Compensating Patent Snap Fore-end, Walnut Checkered.

FRAMES—Case Hardened Frames; Blued Mountings; Top Snap.



No. SA2T2.

WITH AUTOMATIC EJECTOR

Weight Each: 12 Gauge, 7 to 8 lbs.; 16 Gauge, 6 to 7½ lbs.

Crown or Damascus Steel Barrels; Imported English Walnut Stock Oil Finished; Half or Full Pistol Grip, Checkered and Engraved; WITH AUTOMATIC EJECTOR.

	Each
‡No. S 7E12—12 GAUGE; 28 in. Barrels	$127.50
‡No. S 7E16—16 GAUGE; 26 and 30 in. Barrels	127.50

Fine Damascus or Nitro Steel Barrels; Fine Imported English Walnut Stock, Oil Finished; Half or Full Pistol Grip, very nicely Checkered and Engraved.

	Each
‡No. S 312—12 GAUGE; 30 in. Barrels; WITHOUT EJECTOR	$134.00
‡No. S 316—16 GAUGE; 28 and 30 in. Barrels; WITHOUT EJECTOR	134.00
‡No. S 5E12—12 GAUGE; 30 in. Barrels, WITH AUTOMATIC EJECTOR	154.00
‡No. S 5E16—16 GAUGE; 28 and 30 in. Barrels, WITH AUTOMATIC EJECTOR	154.00

"Pigeon Gun;" Nitro Steel Barrels; Strictly High Grade in every particular; Straight Grip, regularly; Half, Three-quarters or Full Pistol Grip to Order.

	Each
‡No. SP12—12 GAUGE; 30 and 32 in. Barrels; WITHOUT EJECTOR	$160.00
‡No. SPE12—12 GAUGE; 30 and 32 in. Barrels; WITH AUTOMATIC EJECTOR	188.00

Very Fine Damascus or Nitro Steel Barrels; Fine Imported English Walnut Stock, Half or Full Pistol Grip, Beautifully Checkered and Finely Engraved.

	Each
‡No. S 412—12 GAUGE; 30 and 32 in. Barrels; WITHOUT EJECTOR	$204.00
‡No. S 416—16 GAUGE; 28 and 30 in. Barrels; WITHOUT EJECTOR	204.00
‡No. S 4E12—12 GAUGE; 30 and 32 in. Barrels; WITH AUTOMATIC EJECTOR	256.70
‡No. S 4E16—16 GAUGE; 28 and 30 in. Barrels; WITH AUTOMATIC EJECTOR	256.70

Very Fine Damascus or Nitro Steel Barrels; Choice Imported English or French Walnut Stock, Half or Full Pistol Grip, Elaborate Checkering, Very Fine Engraving.

	Each
‡No. S 512—12 GAUGE; 30 and 32 in. Barrels; WITHOUT EJECTOR	$267.70
‡No. S 516—16 GAUGE; 28 and 30 in. Barrels, WITHOUT EJECTOR	267.70
‡No. S 5E12—12 GAUGE; 30 and 32 in. Barrels, WITH AUTOMATIC EJECTOR	290.00
‡No. S 5E16—16 GAUGE; 28 and 30 in. Barrels; WITH AUTOMATIC EJECTOR	290.00

Finest Damascus or Whitworth Fluid Steel Barrels; Very Finest Imported English or French Walnut Stock, Half, Three-quarters or Full Pistol Grip; Very Finest Checkering, Beautifully Engraved; Very Finest Finish.

	Each
‡No. SM12—12 GAUGE; 30 and 32 in. Barrels; WITHOUT EJECTOR	$478.00
‡No. SM16—16 GAUGE; 28 and 30 in. Barrels; WITHOUT EJECTOR	478.00

Finest Damascus or Whitworth Fluid Steel Barrels; Very Finest Imported English or French Walnut Stock, Half, Three-quarters or Full Pistol Grip; Very Finest Checkering; Elaborate Engraving; Very Finest Finish.

	Each
‡No. SA2T2—12 GAUGE; 30 and 32 in. Barrels; WITH AUTOMATIC EJECTOR	$510.00
‡No. SA2T6—16 GAUGE; 28 and 32 in. Barrels; WITH AUTOMATIC EJECTOR	510.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 130 lbs

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

AMERICAN DOUBLE BARREL GUNS.

LEFEVER ARMS CO.'S HAMMERLESS.

No. LG12

BORED FOR NITRO POWDER.

BARRELS—Bored for Nitro Powder.
STOCKS—Imported English Walnut Stock, Oil Finished; Checkered Rubber Butt Plate; Compensating Snap Fore-end
FRAME—Case Hardened Frame and Mountings; Top Lever; Full Compensating Action.

DURSTON SPECIAL, DURA-NITRO BLUED STEEL BARRELS

Checkered Half Pistol Grip Stock.

	Each
No. LI 12—12 GAUGE; 28 and 30 in. Barrels each 7½ to 8 lbs.; WITHOUT EJECTOR...	Weight $42.00
No. LI 16—16 GAUGE; 28 and 30 in. Barrels each 6 to 7¼ lbs.; WITHOUT EJECTOR	Weight 42.00
No. LI 20—20 GAUGE; 26 and 28 in. Barrels; Weight each 6¾ to 6¾ lbs. WITHOUT EJECTOR.....	42.00
No. LIE12—12 GAUGE; WITH AUTOMATIC EJECTOR. 28 and 30 in. Barrels; Weight each 7½ to 8 lbs...	58.00

BEST GRADE LONDON TWIST BARRELS; 28 and 30 in. Barrels; Weight each 7 to 8 lbs.

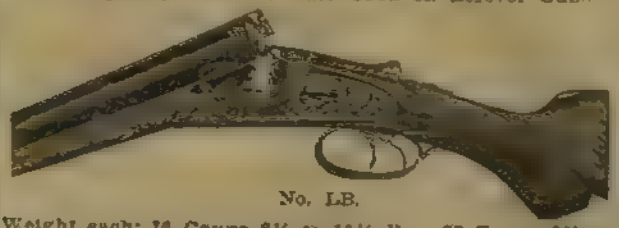
Full Pistol Grip Stock, Checkered and Rubber Capped. Line Engraving.

	Each
No. LH12—12 GAUGE; WITHOUT EJECTOR.....	$56.50
No. LHE12—12 GAUGE; WITH AUTOMATIC EJECTOR	76.00

BARRELS—Damascus.
STOCK—English Walnut, Oil Finished; Full Pistol Grip, Checkered, Rubber Cap and Rubber Butt Plate; Line Engraving, Compensating Snap Fore-end.
FRAME—Case Hardened and Mountings; Top Lever; Full Compensating Action.

	Each
‡*No. LG16—16 GAUGE; 26 and 28 in. Barrels; Weight each 5¾ to 6½ lbs.; WITHOUT EJECTOR*.....	$73.00
No. LG12—12 GAUGE; 28, 30 and 32 in. Barrels; Weight each 7 to 8 lbs.; WITHOUT EJECTOR..	73.00
No. LG16—16 GAUGE; 28 and 30 in. Barrels; Weight each 6 to 7¼ lbs.; WITHOUT EJECTOR.....	73.00

Showing Engine Turned Rib Used on Lefever Guns



No. LB.

Weight each: 16 Gauge 8½ to 10½ lbs.; 12 Gauge 6¾ to 8½ lbs.; 16 Gauge 6 to 7¼ lbs.

16, 12, 16 and 20 Gauge

WITHOUT EJECTOR

	Each
‡*No. LF—Damascus or Nitro Steel Barrels, English Walnut Stock, Full Pistol Grip Checkered Nickel Engraved, Rubber Butt Plate, Fine Compensating Action*	$104.00
‡*No. LE—Damascus or Krupp Steel Barrels; English Walnut Stock, Full Pistol Grip, Checkered, Rubber Cap and Rubber Butt Plate Finely Engraved; Full Compensating Action*	130.00
‡*No. LD—Damascus or Krupp Steel Barrels; Fine English Walnut Stock Full Pistol Grip Checkered Rubber Cap and Rubber Butt Plate, Finely Engraved; Full Compensating Action*	160.00
‡*No. LC—Fine Damascus or Krupp Steel Barrels; Choice English Walnut Stock, Full Pistol Grip, Checkered Horn or Steel Cap Rubber Butt Plate, Richly Engraved Full Compensating Action*	200.00

16, 12 and 16 GAUGE

‡*No. LB—Fine Damascus or Krupp Steel Barrels; Fine English Walnut Stock, Full Pistol Grip, Checkered, Horn Cap and Horn Butt Plate; Handsomely Engraved, Full Compensating Action.*	260.00

‡*All the above Guns can be furnished with Automatic Ejector at an additional cost of $16.00.*

12, 12, 16 and 20 Gauge

WITH AUTOMATIC EJECTOR

	Each
‡*No. LA—Finest Damascus Barrels; Fine French Walnut Stock, Full Pistol Grip, Checkered, Horn Cap, Horn or Skeleton Butt Plate, Handsomely Engraved, Checkered and Finished; Full Compensating Action* $304.00	
‡*No. LAS—Finest Damascus Barrels; Finest French Walnut Stock, Full Pistol Grip, Checkered; Horn Cap; Horn or Skeleton Butt Plate, Elegantly Engraved, Checkered and Finished; Full Compensating Action* 304.50	
‡*Optimus—Whitworth Fluid Steel or Highest Grade Hard English Damascus Barrels; Finest French Walnut Stock, Full Pistol Grip, Checkered, Horn Cap; Horn or Skeleton Butt Plate; Highest Class of Engraving, Checkering and Finish; Special Designs in Gold; Full Compensating Action* 515.00	

Ten in a Case; Weight per Case about 120 lbs.

In ordering the above Guns, please specify the Kind of Barrel, Length and Gauge Wanted

"ANSLEY H. FOX" HAMMERLESS.

BORED FOR NITRO POWDER.

28, 30 and 32 in. Barrels; Handsome Dark English Walnut Stock; Hard Rubber Butt Plate, Frame Engraved.

	Each
No. AF12—12 GAUGE; WITHOUT EJECTOR; Weight each 7 to 8 lbs.....	$ 66.00
‡*No. AFE12—12 GAUGE; WITH AUTOMATIC EJECTOR*.....	87.00

28, 30 and 32 in. Barrels; Fine Selected Dark English Walnut Stock; Hard Rubber Butt Plate; Fine Finish and Engraved; Weight each 6½ to 8 lbs.

	Each
‡*No. BF12—12 GAUGE; WITHOUT EJECTOR*.....	$90.00
‡*No. BFE12—12 GAUGE; WITH AUTOMATIC EJECTOR*.....	110.00

BARRELS—Genuine Krupp Fluid Steel Barrels, Full Choke Bored; Concave Matted Rib, with Rotary Bolted extension.

STOCK—Walnut Stock; Full Pistol Grip, Checkered; Deeley & Edge Pattern Fore-end, Checkered

FRAME—Case Hardened Frame and Top Lever; Automatic Safety; Blued Trimmings.

28, 30 and 32 in. Barrels Selected Curly Dark English Walnut Stock, Hard Rubber Butt Plate; Extra Fine Engraving, Checkering and Finish; Weight each 6½ to 8 lbs.

	Each
‡*No. CF12—12 GAUGE WITHOUT EJECTOR*..	$130.00
‡*No. CFE12—12 GAUGE WITH AUTOMATIC EJECTOR*.....	150.00

26, 28, 30 and 32 in Barrels, Beautifully Figured English Walnut Stock, Hard Rubber or Plain Checkered Butt; Exquisite in Design and Finish throughout; SIGNATURE OR MONOGRAM OF PURCHASER INLAID IN GOLD ON GUARD; Weight each 6½ to 8 lbs.

	Each
‡*No. DF12—12 GAUGE; WITHOUT EJECTOR*	$250.00
‡*No. DFE12—12 GAUGE WITH AUTOMATIC EJECTOR*...	270.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 125 lbs

‡*Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory*

PADLOCKS.

Brass Plated Self-locking Spring Shackle; Spacing of Shackle, Closed ⅝x⅝ in.; 2 Brass Plated Malleable Iron Keys; 4 CHANGES

Per Dozen

No. 281—1¼ IN. WROUGHT STEEL CASE, JAPANNED; Weight per dozen about 1¾ lbs.....$1.00

One Dozen in a Cardboard Box

Self-locking Cast Iron Spring Shackle Brass Plated, Spacing of Shackle Closed ⅛x⅝ in.; Warded; 6 CHANGES, 2 Malleable Keys Nickel Plated

Per Dozen

No. 1801—1¾ IN. CAST IRON CASE BRASS PLATED; Weight per dozen about 3 lbs.....$1.70

One Dozen in a Cardboard Box.

Malleable Iron Self-locking spring Shackle, Nickel Plated Spacing of Shackle, Closed ⅝x⅝ in.; 2 Flat Steel Nickel Plated Keys to each Lock; 4 CHANGES

Per Dozen

No. 1851—1¼ IN. WROUGHT STEEL CASE, BRASS PLATED; Weight per dozen about 1½ lbs.....$1.80

Self-locking Malleable Spring Shackle, Brass Plated, Spacing of Shackle Closed, 9-16x⅝ in; 2 Flat Steel Keys to Each Lock; 4 CHANGES

Per Dozen

No. 308—1¾ IN. WROUGHT STEEL BRASS PLATED CASE; Weight per dozen about 1¾ lbs.....$1.00

RUGBY

Self-locking Steel, Brass Plated, Spring Shackle; Spacing of Shackle, Closed ⅝x 1-5/16 in.; 1 Steel Lever and Ward; 2 Flat Steel Keys to each Lock; 6 CHANGES

Per Dozen

No. 1005B — 1⅞ IN. WROUGHT STEEL, BRASS PLATED CASE; Weight per dozen about 3 lbs..$2.00

One-half Dozen in a Cardboard Box.

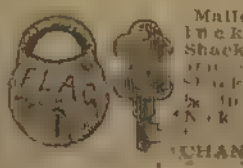
Malleable Self-locking Spring Shackle; Brass Plated; Spacing of Shackle, Closed ⅝ x ⅝ in., 2 Flat Steel Keys to each Lock

6 CHANGES

Per Dozen

No. 913—2 IN. WROUGHT STEEL CASE, BRASS PLATED; Weight per dozen about 3 lbs.....$2.00

One-half Dozen in a Cardboard Box.



Malleable Iron Self-locking Spring Shackle, Black Enamel Finish; Spacing of Shackle, Closed ⅝x⅝ in.; 2 Flat Steel Nickel Plated Keys to each Lock; 4 CHANGES

Per Dozen

No. 28¾—1¾ IN. WROUGHT BRASS CASE, SATIN DIP FINISH, Weight per dozen about 1¾ lbs.....$2.40

One-half Dozen in a Cardboard Box

Self-locking Steel Spring Shackle, Brass Plated; Spacing of Shackle, Closed, ⅝x⅝ in. 6 CHANGES; Warded; 2 Flat Steel Polished Keys to each Lock

Per Dozen

No. 4012—1¾ IN. WROUGHT STEEL CASE, BRASS PLATED; Weight per dozen about 1¾ lbs.....$2.50

GARNET.

Malleable Iron Self-locking Spring Shackle, Nickel Plated Spacing of Shackle, Closed, ⅝ x1 in.; 2 Wrought Steel Keys to each Lock; 6 CHANGES.

Per Dozen

No. 17—2 IN. ENAMELED WROUGHT STEEL CASE, GARNET FINISH; Weight per dozen about 3 lbs..$2.50

One Dozen in a Cardboard Box

Malleable Iron Self-locking Spring Shackle; Brass Plated Finish; Spacing of Shackle, Closed, ⅝ x⅝ in.; 2 Nickel Plated Malleable Iron Keys to each Lock; 6 CHANGES

Per Dozen

No. 4230—1¾ IN. WROUGHT STEEL, BLACK ENAMELED CASE; Weight per dozen about 3½ lbs.....$2.50

One-half Dozen in a Cardboard Box

PADLOCKS.

Malleable Iron Self-locking Spring Shackle, Brass Plated; Spacing of Shackle, Closed, ⅝x1 in.; Flat Steel Nickel Plated Keys to Each Lock; SIX CHANGES

Per Dozen

No. 100—2 IN. WROUGHT STEEL CASE, BRASS PLATED; Weight per dozen about 3 lbs.....$2.50

One Dozen in a Cardboard Box.

KING KORN.

With Embossed Letters; Malleable Iron Satin Brass Finish Self-locking Spring Shackle; Spacing of Shackle, Closed ⅝x1 in., 2 Malleable Iron Nickel Plated Duplex Keys to each Lock; 6 CHANGES.

Per Dozen

No. 813—2 IN. WROUGHT STEEL CASE SATIN BRASS FINISH, Weight per dozen about 3 lbs.....$2.00

NIXALL.

Malleable Iron Self-locking Spring Shackle, Nickel Plated, Spacing of Shackle, Closed, ⅝x1⅛ in., 2 Wrought Steel Keys to each Lock; 6 CHANGES

Per Dozen

No. 37—2 IN. WROUGHT STEEL BRASS PLATED CASE; Weight per dozen about 3 lbs.....$2.00

One-half Dozen in a Cardboard Box

Malleable Iron Self-locking Spring Shackle, Old Copper Finish, Polished, Spacing of Shackle, Closed, ⅝x1 in., 1 Brass and 2 Flat Steel Nickel Plated Keys to each Lock; 6 CHANGES

Per Dozen

No. 498—2 IN. WROUGHT STEEL CASE OLD COPPER FINISH, POLISHED; Weight per dozen about 4½ lbs.....$2.00

One Dozen in a Cardboard Box.

Self-locking Malleable Spring Shackle, Brass Plated; Spacing of Shackle, Closed, ⅜x⅝ in.; 1 Steel Lever and Ward, Two Flat Steel Keys to each Lock 6 CHANGES

Per Dozen

No. 40—1¾ IN. WROUGHT STEEL BRASS PLATED CASE, Weight per dozen about 3 lbs.....$3.00

One-half Dozen in a Cardboard Box.

We carry heavier stocks and a more complete assortment than is shown by any other house. This gives YOU the advantage of OUR having the goods when you want them. The best assortment of goods shown in America is at your disposal

PADLOCKS.

With Raised Parts Nickeled and Polished; Malleable Iron Nickel Plated Self-locking Spring Shackle; Spacing of Shackle ⅜x1¼ in.; 2 Nickel Plated Flat Steel Keys to each Lock; 2 Brass Levers; 4 Brass Wards; 12 CHANGES.

Per Dozen

No. 25—2¼ IN. WROUGHT STEEL CASE, GREEN ENAMELED FINISH; Weight per dozen about 3½ lbs. $3.20

Self-locking Malleable Brass Plated Spring Shackle; Spacing of Shackle Closed, ¾x1¼ in.; 1 Steel Lever and Ward; 2 Malleable Iron Nickel Plated Drilled Keys to each Lock; SIX CHANGES.

Per Dozen

No. 257—2 IN. WROUGHT STEEL BRASS PLATED CASE. Weight per dozen about 3 lbs. $3.50

Self-locking Brass Spring Shackle; Spacing of Shackle, Closed, 5/16x5/16 in.; 2 Flat Steel Keys to each Lock; 4 CHANGES.

Per Dozen

No. 4016—⅝ IN. WROUGHT BRASS, POLISHED; Weight per doz. about ¾ lb. $2.60

One Dozen in a Cardboard Box.

TOGO

Malleable Spring Shackle, Nickel Plated. Spacing of Shackle Closed, 13/16x⅝ in.; 2 Nickel Plated Flat Steel Keys to each Lock; 6 CHANGES to the dozen.

Per Dozen

No. 115J—2 IN. BLACK ENAMELED WROUGHT STEEL Case; Wgt. per dozen about 3 lbs. $3.60

Malleable Iron Coppered Self-locking Spring Shackle; Spacing of Shackle Closed, ⅝x⅝ in.; 2 Polished Steel Barrel Keys to each Lock. 6 CHANGES

Per Dozen

No. 83—2 IN. WROUGHT STEEL CASE COPPERED; Weight per doz. about 3 lbs. $3.60

One-half Dozen in a Cardboard Box

PADLOCKS.

ROYAL

Malleable Self-locking Spring Shackle, Nickel Plated Spacing of Shackle, Closed, ⅝x1¼ in.; 2 Nickel Plated Flat Steel Keys to each Lock; 12 CHANGES.

Per Dozen

No. 27—2 IN. BLUE ENAMELED WROUGHT STEEL CASE; Wgt. per dozen about 3½ lbs. $3.00

PYRAMID

With Raised Letters Polished; Malleable Iron Brass Plated Self-locking Spring Shackle; Spacing of Shackle, Closed, ⅝x⅝ in. 2 Levers 3 Wards; 2 Malleable Nickel Plated Barrel Keys; 12 CHANGES.

Per Dozen

No. 400—2 IN WROUGHT STEEL CASE, BLACK ENAMELED Wgt per dozen about 3½ lbs. $3.50

OAK LEAF

Self-locking Malleable Spring Shackle, Brass Plated; Spacing of Shackle, Closed, 11/16x⅝ in.; 12 Steel Tumblers; 12 CHANGES; 2 Flat Steel Nickel Plated Keys to Each Lock.

Per Dozen

No. E282—2 IN. WROUGHT STEEL CASE JAPANNED WITH RAISED PARTS POLISHED; Weight per dozen about 3¾ lbs. $3.80

One-half Dozen in a Cardboard Box.

Self-locking Malleable Shackle; Spacing of Shackle, Closed, ⅝x⅝ in.; 6 Levers; 7 Steel Drilled Keys; 24 CHANGES.

Per Dozen

No. 4376—1¼ IN. WROUGHT STEEL CASE BRASS PLATED; Weight per dozen about 2 lbs. $2.80

One Dozen in a Cardboard Box.

SIX LEVER

Malleable Iron Self-locking Spring Shackle, Nickel Plated; Spacing of Shackle, Closed, ⅝x1 in. Six Steel Levers 12 CHANGES; 3 Malleable Iron Nickel Plated Double Bitted Keys to Each Lock

Per Dozen

No. 600—2 IN. WROUGHT STEEL CASE JAPANNED; Weight per dozen about 4¼ lbs. $3.80

One-half Dozen in a Cardboard Box.

PADLOCKS.

With Raised Parts Polished Bright; Self-locking Malleable Spring Shackle, Nickel Plated Spacing of Shackle Closed ⅝x13/16 in. 2 Wrought Steel Levers; 4 Wards, 12 CHANGES. 2 Malleable Barrel Keys to each Lock

Per Dozen

No. 47—2 IN. WROUGHT STEEL CASE, JAPANNED; Weight per doz. about 3 lbs. $4.30

Self-locking Malleable Spring Shackle, Brass Plated; Double Locking Bolts Heel and Nose of Shackle; Spacing of Shackle Closed ⅝x15/16 in.; Five Ward Levers; 24 CHANGES; 2 Flat Steel Keys Nickel Plated to Each Lock

Per Dozen

No. 51—2 IN. HEAVY WROUGHT STEEL CASE, BRASS PLATED, POLISHED, EMBOSSED LETTERS. Weight per dozen about 3½ lbs. $4.80

No. 49—1⅛ IN. CASE; Weight per dozen about 2¾ lbs. 3.50

2 IN WROUGHT STEEL CASE AND RIVETS; Malleable Iron Self-locking Spring Shackle; Spacing of Shackle, Closed, 13/16x15/16 in.; 6 BRASS LEVERS, 2 Double Bitted Malleable Keys to each Lock; 12 CHANGES

Per Dozen

No. 4010¼—BRASS PLATED CASE; 12 CHANGES Weight per dozen about 4½ lbs. $4.30

No. 4010¼L—BRASS PLATED CASE Keyed Alike; Weight per dozen about 4¾ lbs. 4.30

No. 4010¼C—BRIGHT FINISH CASE WITH 10 IN. JAPANNED STEEL CHAIN; Weight per dozen about 6 lbs. 5.80

One-Half Dozen in a Cardboard Box.

Cast Brass Self-locking Spring Shackle; Spacing of Shackle, Closed, ⅝x⅝ in.; 2 Flat Steel Nickel Plated Keys. 12 CHANGES.

Per Dozen

No. 62—1⅝ IN. CAST BRASS CASE Raised Letters Relieved by Red Enameled Background; Weight per dozen about 3 lbs. $4.80

One Dozen in a Cardboard Box.

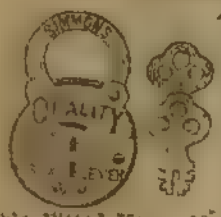
Six Secure Brass Levers, Phosphor Bronze Springs, Cast Iron Self-locking Spring Shackle; Spacing of Shackle, Closed, ⅝x⅝ in.; 2 Flat Steel Keys to Each Lock; 12 CHANGES

Per Dozen

No. 11—2¼ IN. CAST IRON CASE, [illegible] PLATED FINISH; Weight per dozen about 6 lbs. $4.80

One-half Dozen in a Cardboard Box.

PADLOCKS.



Malleable Iron Self-locking Spring Shackle. Brass Plated Spacing of Shackle Closed, 15/16x15/16 in.; 6 Brass Plated Steel Levers, Brass Rivets; 2 Flat Steel Double Bitted Keys; 12 CHANGES

Per Dozen

No. 01100—2 IN. WROUGHT STEEL, BRASS PLATED CASE; Weight per dozen about 4½ lbs.....$4.80

One-half Dozen in a Cardboard Box

Malleable Iron Brass Plated Self-locking Spring Shackle; Spacing of Shackle, Closed, ⅞x1-1/16 in.; 2 Nickel Plated Flat Steel Keys with Each Lock, 6 CHANGES, 1 Tumbler and Ward

Per Dozen

No. 372—2 IN. WROUGHT STEEL, BLACK ENAMELED WITH RAISED PARTS POLISHED, Weight per dozen about 3½ lbs $4.80

One Dozen in a Cardboard Box.

RURAL MAIL BOX LOCKS

Self-locking Spring Shackle, Brass Polished Spacing of Shackle Closed, 11/16 x ¾ in.; Galvanized Springs and Levers; 2 Corrugated Steel Keys to each Lock; 12 CHANGES One Master Key with each Dozen Locks

Per Dozen

No. 9902BS—1½ IN. CAST BRASS CASE, with Raised Surfaces, Polished; Weight per dozen about 3 lbs.....$5.30

No. 9902BSC—1½ IN. CAST BRASS CASE, with Raised Surfaces, Polished; WITH 7 IN. BRASS CHAIN. Weight per dozen about 3½ lbs $6.90

One-half Dozen in a Cardboard Box

PADLOCKS.

NOTE—The No. 9900 Padlock will interchange with No. 9902BS and can be operated with same master key.

Self-locking Polished Steel Spring Shackle; Spacing of Shackle closed ¾x ¾ in.; Galvanized Spring Levers; 2 Corrugated Steel Keys Nickel Plated; 12 CHANGES

Per Dozen

No. 9900—1½ IN CAST BRASS CASE, with Raised Surfaces Polished; Weight per dozen about 3 lbs.....$4.80

One-Half Dozen in a Cardboard Box.

WITHOUT MASTER KEY.

Self-locking Polished Steel Spring Shackle; Spacing of Shackle Closed 1-5/16 x 1½ in. Warded; SIX CHANGES; 2 Flat Steel Keys with Each Lock

Per Dozen

No. 830—3 IN. CAST BRASS POLISHED CASE; Weight per dozen about 4 lbs.....$4.30

One-half Dozen in a Cardboard Box

BULL DOG.

Wrought Steel, IVORY BLACK FINISH CASE; Self-locking Malleable Nickel Plated Spring Shackle; 1 Galvanized Steel Lever; 2 Nickeled Flat Steel Keys to each Lock.

Per Dozen

No. 490—1-5/16 IN.; 6 CHANGES, Spacing of Shackle, Closed, ⅞x¾ in.; Weight per doz. about 3 lb.$1.90

No. 500—1½ IN.; 6 CHANGES; Spacing of Shackle, Closed, 11/16x11/16 in.; Wgt. per doz. abt. 1½ lbs. 2.20

No. 502—1¾ IN.; 6 CHANGES; Spacing of Shackle, Closed, ⅞x¾ in.; Wgt. per doz. about 2½ lbs..... 3.00

One Dozen in a Cardboard Box.

No. 504—2 IN.; 12 CHANGES; Spacing of Shackle, Closed, ⅞x1 in.; Weight per dozen about 3 lbs..... 3.50

No. 506—2⅝ IN.; 24 CHANGES; Spacing of Shackle, Closed, 1⅛x1⅜ in. Weight per dozen about 5 lbs...$5.30

One-half Dozen in a Cardboard Box.

PADLOCKS.

BULL DOG.

Self-Locking Malleable Spring Shackle, Brass Plated; Spacing of Shackle, Closed, ⅝x¾ in.; 1 Galvanized Steel Lever; 2 Nickel Plated Flat Steel Keys to each Lock; 6 CHANGES.

Per Dozen

No. 480—1-5/16 IN. WROUGHT STEEL CASE, BRASS PLATED. Weight per dozen about 1 lb.. $1.90

WROUGHT BRASS CASE; Self-locking Malleable Black Enameled Spring Shackle; 1 Galvanized Steel Lever; 2 Nickeled Flat Steel Keys.

Per Dozen

No. 508—1½ IN.; 6 CHANGES; Spacing of Shackle, Closed, 11/16x11/16 in.; Wgt. per doz. abt. 1¾ lbs.$3.20

No. 510—1¾ IN.; 6 CHANGES; Spacing of Shackle, Closed, ⅞x¾ in.; Weight per doz. about 2½ lbs.. 4.80

One Dozen in a Cardboard Box.

No. 512—2 IN.; 12 CHANGES; Spacing of Shackle, Closed, ⅞x1-1/16 in., Weight per doz. about 3 lbs. 5.20

One-half Dozen in a Cardboard Box.

BULL DOG.

Self-Locking Malleable Nickel Plated Spring Shackle, Spacing of Shackle, Closed ⅞x1 in.; 1 Galvanized Steel Lever; 2 Steel Nickel Plated Drilled Keys to [illegible] 12 CHANGES

Per Dozen

No. 521—2 IN.; WROUGHT STEEL CASE, Ivory Black Finish; Weight per dozen about 3 lbs.....; $3.60

One-half Dozen in a Cardboard Box

BULL DOG.

R. F. D. LOCK.

Self-Locking Malleable Spring Shackle; Spacing of Shackle Closed ⅞x¾ in. Brass Interior Construction; Master Keyed in 36 CHANGES, 2 Flat Steel Keys with each Lock; 1 Master Key furnished with each dozen.

Per Dozen

No. 1500MK—1¾ IN. WROUGHT STEEL CASE, BRASS PLATED; Weight per doz. about 2½ lbs...$4.80

One Dozen in a Cardboard Box.

WITH ONE MASTER KEY.

SATISFACTION.

We buy more goods than any other Hardware concern in the world.
We carry a larger assortment than any other Hardware concern in the world.
We sell more goods than any other Hardware concern in the world.
We have more customers than any other Hardware concern in the world.

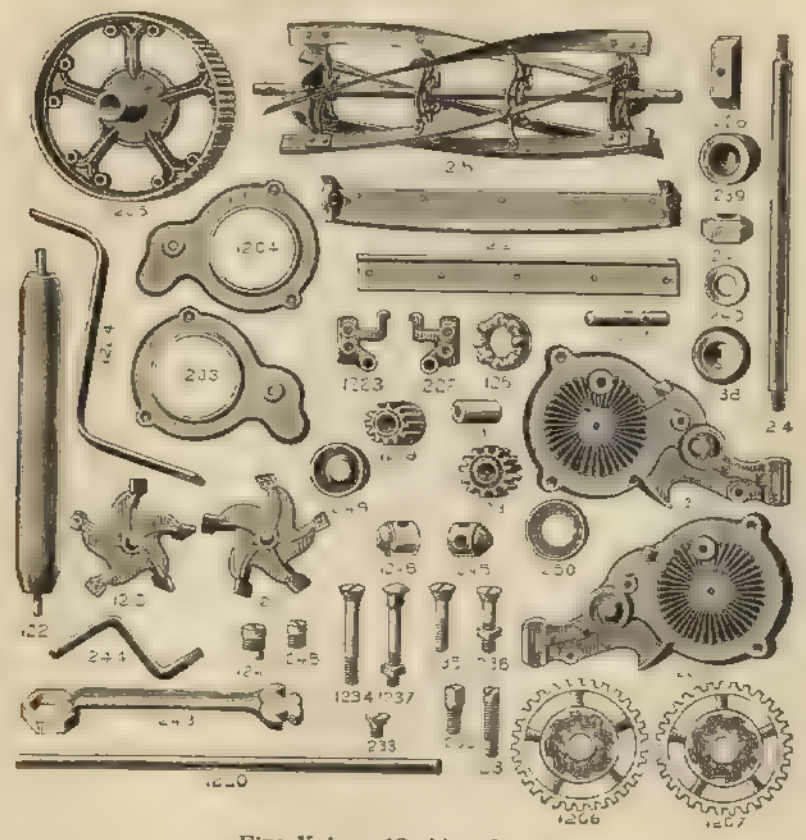
WHY?

Lowest Prices
Good Service
Complete satisfaction of the old-fashioned kind.
We appreciate your business more than any other house in the world.

SEND US YOUR MAIL ORDERS.

LAWN MOWER PARTS

PENNSYLVANIA JUNIOR, BALL BEARINGS



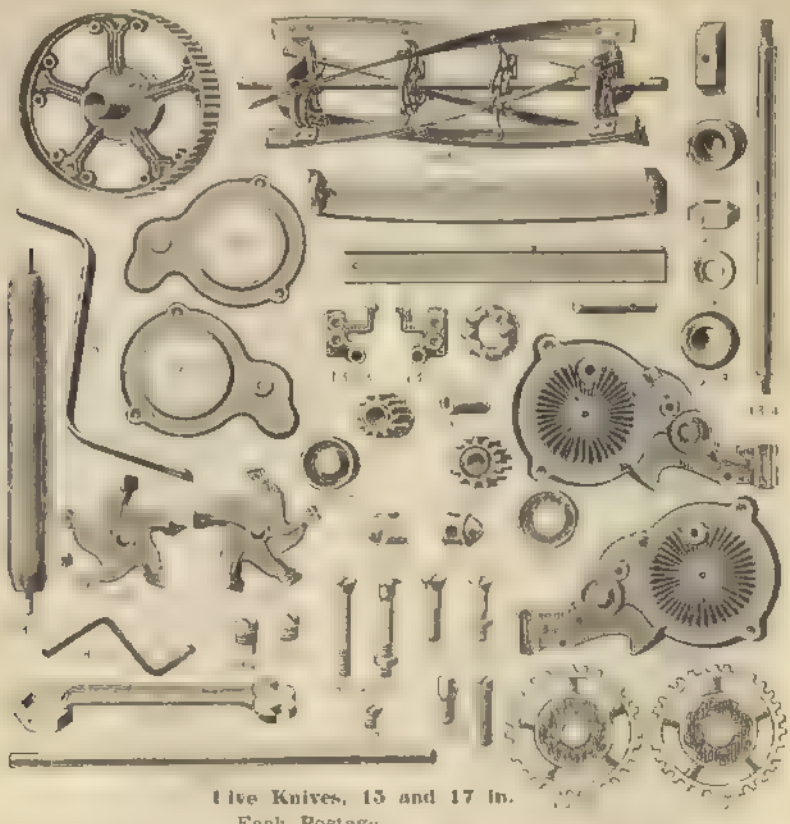
Five Knives, 12, 14 and 16 in.

		Each	Postage
No. B1201	L. H. Side Plate, with Cup	$1.70	Exp
No. B1202	R. H. Side Plate, with Cup	1.70	Exp
No. 1203	Left Hand Shield	.70	.21
No. 1204	Right Hand Shield	.70	.21
No. 1205	Driving Wheels, both alike	1.00	Exp
No. 1206	L. H. Master Gear 1⅛ in. Hole	60	Exp
No. 1207	R. H. Master Gear, 1⅛ in. Hole	60	Exp
No. 1208	Inter Gear, both alike, ⅝ in.	35	05
No. 1209	Pinion, ⅝ in.	25	04
No. 1211	Bushing for Inside Gear	.20	03
No. 1212	Cast Back for Stationary Knife		
	Inches 12 14 16		Exp.
	Each $0.95 1.05 1.15		
No. 1213	Steel Stationary Blade.		
	Inches 12 14 16		
	Each .....$0.50 .60 .70		
	Postage .... .13 .15 .18		
No. 1214	Shaft for Frame.		
	Inches .. 12 14 16		Exp
	Each .. $0.70 .80 .90		
No. 1215	Cylinder, Complete, 5 Knives		
	Inches .. 12 14 16		Exp
	Each $4.50 5.00 5.50		
No. 1216	Left Hand Cylinder Head	1.00	.15
No. 1217	Right Hand Cylinder Head	1.00	.15
No. 1218	Ring for Cylinder	.40	.07
No. 1219	Spiral Knife for Cylinder.		
	Inches 12 14 16		
	Each .....$0.60 .70 .80		
	Postage .... .10 .12 .13		
No. 1220	Shaft for Cylinder		
	Inches .. 12 14 16		Exp
	Each .....$0.28 .34 .40		
No. 1221	Wood Roller		
	Inches 12 14 16		Exp.
	Each .....$0.40 .45 .50		
No. 1222	Left Hand Roller Bracket	.15	.06
No. 1223	Right Hand Roller Bracket	$0.15	.06
No. 1225	Wood Handle	.75	Exp
No. 1224	Handle Brace.		
	Inches 12 14 16		
	Each .. $0.25 .30 .35		
	Postage 15 17 18		
No. 1226	Steel Pawl	.05	01
No. 1227	Steel Pin for Pinion, ⅜x⅞ in.	.02	01
No. 1231	S. S. for Ad. Cast Back, x1⅛ in.	04	.01
No. 1232	S. S. for Fastening Cylinder Head to Shaft, (Sq. H.) ⅛x⅞ in.	06	01
No. 1233	Machine Screw for Stationary Knife Blade, F. H.	.04	.01
No. 1234	Machine Screw for Wheel Bearing, ⅛x3 in.	.06	.01
No. 1235	Machine Screw for Bushing on Intermediate Gear, ⅛x1½ in.	.06	.01
No. 1236	Bolt for R. B. Cast Back and Gear Box, ¼x1¼ in.	02	.01
No. 1237	Bolt for Handle Brace, ¼x3 in.	06	.01
No. 1238	Washer for Wheel Bearing	02	.01
No. 1239	Washer for Cast Back	02	01
No. 1240	Washer for R. B. and Wood Handle ¼ in.	.02	01
No. 1241	Hex. Nut for End of Frame Shaft	04	01
No. 1243	Wrench	.10	.04
No. 1244	Sharpening Crank	.10	.04
No. 1245	Left Hand Cone	.40	.04
No. 1246	Right Hand Cone	.40	.04
No. 1247	Ad. Screw L. H. Cone, ⅜x⅜ in.	.12	.01
No. 1248	Set Screw for Cones (both alike) ⅜x⅜ in.	.06	.01
No. 1249	Ball Cup, (without Balls)	.30	.02
No. 1250	Dust Cap for Ball Cup	.10	.01
No. 1251	One Set Balls, with Retainer	.30	.02
No. 1252	Roller Pins	.06	.01
No. 1253	Rivets for Cyl. Knives, x¼ in.	.02	01

NOTE When ordering always give number with description of Part also width of Cut and name of Machine

LAWN MOWER PARTS

PENNSYLVANIA JUNIOR HIGH WHEEL, BALL BEARINGS



Five Knives, 15 and 17 in.

		Each	Postage
No. B1301	—L. H. Side Plate, with Cup	$2.00	Exp
No. B1302	—R. H. Side Plate, with Cup.	2 00	Ex,
No. 1303	—Left Hand Shield	1.00	2
No. 1304	—Right Hand Shield	1.00	2
No. 1305	—Driving Wheels (both alike)	1 25	Ex,
No. 1306	—L. H. Master Gear, 1⅛ in. Hole	70	Ex,
No. 1307	—R. H. Master Gear, 1⅛ in. Hole	.70	Exp.
No. 1308	—Inter. Gear, (both alike) ⅝ in. Hole	.40	0[illegible]
No. 1309	—Pinion, ⅝ in. Hole	.25	04
No. 1311	—Bushing for Inter. Gear	.20	03
No. 1312	—Cast Back for Stationary Knife.		
	Inches	15	17
	Each	$1.10	1 20
			Exp.
No. 1313	—Steel Stationary Blade		
	Inches	15	17
	Each	$0 75	85
	Postage	17	18
No. 1314	Shaft for Frame		
	Inches	15	17
	Each	$0 80	90
			Exp
No. 1315	—Cylinder, complete, 5 Knives		
	Inches	15	17
	Each	$5 [illegible]	[illegible]
			Exp
No. 1316	—Left Hand Cylinder Head	1 20	10
No. 1317	—Right Hand Cylinder Head	1 20	10
No. 1318	—Ring for Cylinder.	60	07
No. 1319	—Spiral Knife for Cylinder		
	Inches	15	17
	Each	$0 80	90
	Postage	12	14
No. 1320	—Shaft for Cylinder		
	Inches	15	17
	Each	$0 40	45
			Exp.
No. 1321	—Wood Roller		
	Inches	15	17
	Each	$0 [illegible]	[illegible]
			Exp
No. 1322	—Left Hand Roller Bracket	15	06

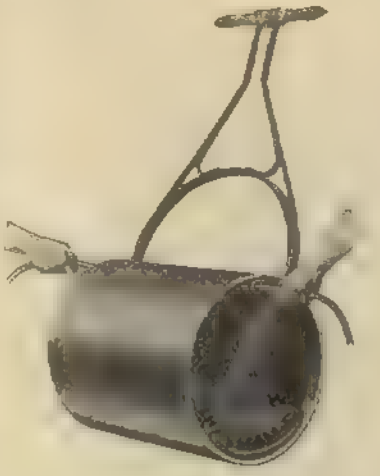
		Each	Postage
No. 1323	—Right Hand Roller Bracket	$0.15	.06
No. 1324	Handle Brace		
	Inches	15	17
	Each	$0 [illegible]	4
	Postage	15	20
No. 1325	—Wood Handle	75	Exp
No. 1326	—Steel Pawl	05	01
No. 1327	—Steel Pin for Pinion, ⅛x⅞ in.	02	01
No. 1341	—Set Screw for Adjusting Cast Back, ⅜x1¼ in.	04	01
No. 1332	—Set Screw for Fastening Cylinder Head to Shaft (Sq. Hd.) ⅜x⅜ in.	06	.01
No. 1333	—Machine Screw for Stationary Knife Blade, F. H.	04	01
No. 1334	—Machine Screw for Wheel Bearing, ⅜x3 in.	06	01
No. 1335	—Machine Screw for Bushing on Intermediate Gear, ⅜x1½ in.	04	01
No. 1336	—Bolt for R. B. Cast Back and Gear Box, ¼x1¼ in.	02	01
No. 1337	—Bolt for Handle Brace, ⅛x3 in.	[illegible]	01
No. 1338	—Washer for Wheel Bearing	2	01
No. 1339	—Washer for Cast Back	2	02
No. 1340	—Washer for R. B. and Wood Handle, ¼ in.	02	01
No. 1341	—Hex. Nut for End of Frame Shaft	04	01
No. 1343	—Wrench	10	04
No. 1344	—Sharpening Crank	10	04
No. 1345	—Left Hand Cone	40	04
No. 1346	—Right Hand Cone	40	04
No. 1347	—Eccentric Screw for Adjusting Cone, ⅜x⅞ in.	12	01
No. 1348	—Set Screw for Cone (both alike), ⅛x¼ in.	06	01
No. 1349	—Ball Cup, (Without Balls)	30	02
No. 1350	—Dust Cap for Ball Cup	10	01
No. 1351	—One Set Balls, with Retainer	[illegible]	02
No. 1352	—Roller Pins	06	02
No. 1353	—Rivets for Cyl. Knives, ⅜x1¼ in.	02	01

NOTE When ordering always give number with description of Part, also width of Cut and Name of Machine

HAND LAWN ROLLERS

DUNHAM "WATER WEIGHT", ROLLER BEARING

It takes no more pull or draft to operate the "Dunham" 650 lb Roller than to operate the 350 lb. of any other make



Style of Nos. WB3 to WB15
Without Handle Weights

Style of Nos. HW2 to HW14
With Counter-Balancing Weights

Electric Welded Drum, Perfectly Smooth Rolling Surface, Strong Steel Handles with Wood Grip

High Carbon Steel Axle, Perfectly Round and Smooth, Revolving Freely in Roller Bearings at Either End

Without Handle Weights

Nos.	WB3	WB5	*WB7	*WB9	*WB11	*WB13	*WB15
Diameter, Inches	14	18	24	24	18	24	24
Length, Inches	20	24	24	32	24	32	24
Number of Sections	1	1	1	1	2	2	2
Weight When Empty, Lbs.	60	75	125	140	100	170	125
Weight When Filled with Water, Lbs.	200	300	500	650	300	650	500
Weight When Filled with Sand, Lbs.	360	500	800	1000	500	1000	800
Each	$16.00	21.00	27.20	30.40	38 80	36.40	35.20

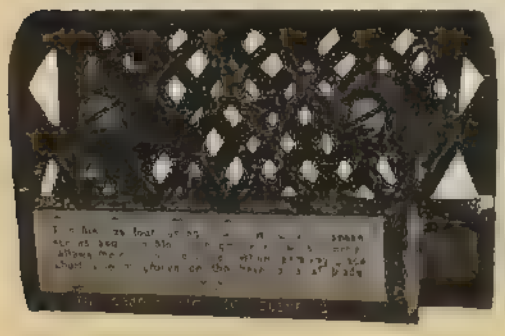
With Counter-Balancing Weight

Nos.	*HW2	*HW4	*HW6	*HW8	*HW10	*HW12	*HW14
Diameter, Inches	14	18	24	24	18	24	24
Length, Inches	20	24	24	32	24	32	24
Number of Sections	1	1	1	1	2	2	2
Weight When Empty, Lbs.	120	135	185	200	160	230	185
Weight When Filled with Water, Lbs.	260	360	560	710	360	710	560
Weight When Filled with Sand, Lbs.	360	580	860	1060	560	1060	860
Each	$18.40	28.20	29.60	32.80	31.20	40.80	37.60

Two weights are attached to the handle on either side, holding the handle upright at all times

The Rolls or Sections are loose on the axle, so that they revolve independently thus facilitating the movement of the Roller when turning about

*Note—Not Carried in Stock, but Shipped Direct from Factory



LAWN MOWER SHARPENERS

OSBORN

Per Dozen

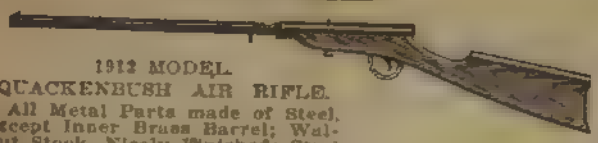
Osborn—High Grade Steel File with Four Good Cutting Edges, Amber Bronzed Finished Holder.....$4.50

A practical and easily operated Sharpener, keeps the Lawn Mower Blades in perfect condition, no adjusting necessary, will fit any Lawn Mower Blade. When dull, loosen Screws and turn File. The Groove of the Sharpener follows the curve of the Blade. Simple in construction, always ready for use. Does the work quickly.

Weight Per Dozen 7 Pounds

One Dozen in a Hinged Cover Display Box

AIR RIFLES.



1912 MODEL
QUACKENBUSH AIR RIFLE.

All Metal Parts made of Steel, except Inner Brass Barrel; Walnut Stock, Nicely Finished; Steel Parts Dark Blue; It Operates by Pushing in the Barrel; This Opens the Breech for insertion of Projectile.

Per Dozen

No. 7—QUACKENBUSH; Shoots Air Rifle Shot and No. 17/100 or No. AR Darts; Full Length 39¼ in.; Complete with 6 Steel Darts and 3 Fancy Paper Targets; Weight each about 2¾ lbs. $74.40

One-twelfth Dozen in a Cardboard Box; Weight, Boxed, about 3¾ lbs.

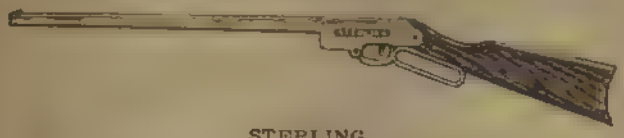
BENJAMIN NEW MODEL "C".
SINGLE SHOT; PNEUMATIC.

Air is compressed in an Air Chamber by a stroke or two of the Pump Rod; the greater the compression, the more force or penetration the shot has. Take-Down Pattern Blued Finish; Plain Walnut Stock; Shoots Regular "Air Rifle" Shot.

Per Dozen

No. BB—Length of Barrel 32½ in.; Length over all 37 in. Weight each about 2½ lbs. $42.00

One-twelfth Dozen in a Cardboard Box; One Dozen in a Case; Weight per Case about 35 lbs.



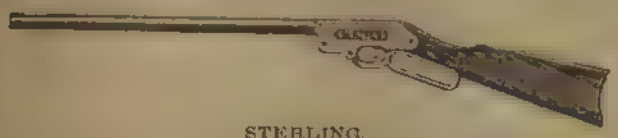
STERLING.
MODEL G; LEVER ACTION, REPEATER

Magazine Holds 1000 Air Rifle Shot; Loads Automatically by Operating Lever. Action of Lever Easy and Smooth; Automatic Shot Retainer, Prevents Shot from Rolling Out of Barrel.

Black Walnut Stock, Natural Finish; Heavily Nickel Plated Octagonal Tapering Barrel and Frame

Per Dozen

No. SG1000—1000 SHOT; Length 35 in.; Weight per dozen about 35 lbs. $30.00



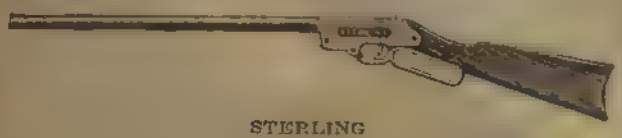
STERLING.
MODEL E; LEVER ACTION, REPEATER

Magazine Holds 350 Air Rifle Shot; Lever Action; Smooth and Perfect; Automatic Shot Retainer Prevents Shot from Rolling Out of Barrel

Walnut Stock, Dull Finish; Heavily Nickel Plated Round Tapering Barrel and Frame.

Per Dozen

No. SE350—350 SHOT; Length 31½ in.; Weight per dozen about 32 lbs. $20.00



STERLING
MODEL D; LEVER ACTION, SINGLE SHOT.

Shoots Air Rifle Shot; Accurate and Strong; Walnut Stock, Dull Finish; Heavily Nickel Plated Round Tapering Barrel and Frame

Per Dozen

No. SD—SINGLE SHOT; Length 31½ in. Weight per dozen about 32 lbs. $15.00

STERLING
MODEL C; SPECIAL SINGLE SHOT; BREAK-DOWN ACTION

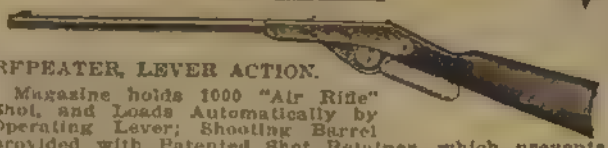
Shoots Air Rifle Shot; Walnut Stock, Rigidly Attached to Frame, Reinforced Barrel, Highly Nickel Plated.

Per Dozen

No. SC—SINGLE SHOT; Length 29 in.; Weight per dozen about 30 lbs. $9.00

One Dozen in a Case.

AIR RIFLES.



REPEATER, LEVER ACTION.

Magazine holds 1000 "Air Rifle" Shot, and Loads Automatically by Operating Lever; Shooting Barrel provided with Patented Shot Retainer, which prevents Shot rolling out when shooting downward

Turned Polished Black Walnut Stock, with Blued Steel Butt Plate. Working Parts made of Steel and Brass, easily taken apart and assembled by anyone

Shoots with great force and accuracy; Plain Open Sights.

DAISY.

Nickel Plated Steel Barrel, Frame and Lever.

Per Dozen

No. D1000—1000 SHOT; Length 36 in.; Weight each about 2 lbs. $27.00

No. D500—500 SHOT; Length 33 in.; Weight each about 1 lbs. 24.00

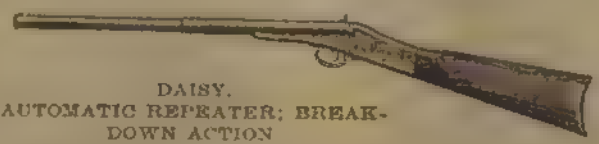
One-half Dozen in a Case; Weight per Case about 21 lbs

DAISY SPECIAL.

Blued Steel Barrel, Frame and Lever.

No. D0100—1000 SHOT; Length 36 in.; Weight each about 2 lbs. .....Per Dozen, $30.00

One-twelfth Dozen in a Hinged Cardboard Display Box; One-half Dozen in a Case; Wgt. per Case about 28 lbs.



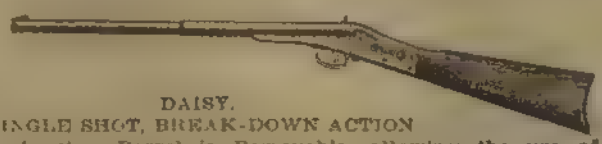
DAISY.
AUTOMATIC REPEATER; BREAK-DOWN ACTION

Magazine Holds 350 "Air Rifle" Shot; Extremely Simple; All Parts easily removed for Inspection or Replacement.

Polished Walnut Stock; Nickel Plated Steel Barrel, Frame and Mountings; Rocky Mountain Front Sight, Peep Rear Sight.

No. 10—350 SHOT; Length 31½ in.; Weight each about 1 lb 11 oz. .....Per Dozen, $18.00

One Dozen in a Case, Weight per Case about 27 lbs.



DAISY.
SINGLE SHOT, BREAK-DOWN ACTION

Shooting Barrel is Removable, allowing the use of either "Air Rifle" Shot or Darts, Easily taken apart and assembled

Nickel Plated Steel Barrel, Frame and Mountings; Polished Walnut Stock, Rocky Mountain Front Sight; Rear Peep Sight

No. 1—SINGLE SHOT; Shoots "Air Rifle" Shot and Darts; Muzzle Loader; Length 31½ in.; Weight 1 lb 11 oz. .....Per Dozen, $13.50

One Dozen in a Case; Weight per Case about 27 lbs

LITTLE DAISY; SINGLE SHOT

Made entirely of Steel; Fitted with Black Walnut Stock, Handsomely Nickel Plated; Open Front and Rear Peep Sight

No. 20—Shoots "Air Rifle" Shot; Muzzle Loader; Length 29 in.; Weight each about 1 lb 2 oz....Per Dozen, $8.00

One Dozen in a Case; Weight per Case about 19 lbs

We recommend the use of AIR RIFLE Shot in all Air Rifles, it being the size especially adapted to them.

Directions for Using Sent with Each Rifle.

AIR RIFLE DARTS.

The use of Darts has greatly increased the sale of Air Rifles, as it allows their use at indoor target practice. We carry a dart made expressly for our No. 1 Rifle. Assorted colors

Per Dozen

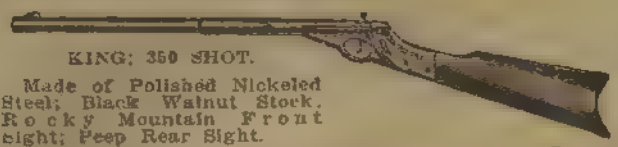
No. AR—Air Rifle Darts, Assorted Colors; Weight per dozen about ¼ oz. $0.50

One Dozen in an Envelope

AIR RIFLE SHOT.

We recommend this size for Air Rifles. It is between B and BB and runs 68 pellets to the ounce. When ordering shot specify this size as it runs more uniform and will give your customers better satisfaction.

AIR RIFLES.



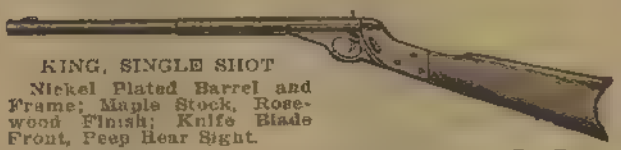
KING; 350 SHOT.

Made of Polished Nickeled Steel; Black Walnut Stock. Rocky Mountain Front Sight; Peep Rear Sight.

Per Dozen

No. 350—KING; Length of Rifle 32 in.; Magazine Holds 350 Air Rifle Shot; Wgt. each about 1¾ lbs. ..$18.00

One Dozen in a Case; Weight per Case about 26 lbs.



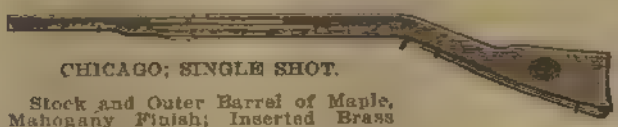
KING, SINGLE SHOT

Nickel Plated Barrel and Frame; Maple Stock, Rosewood Finish; Knife Blade Front, Peep Rear Sight.

Per Dozen

No. 0—Shoots Air Rifle Shot; Muzzle-Loader; Length of Rifle 31 in.; Weight each about 2 lbs. 3 oz. $13.50

One Dozen in a Case; Weight per Case about 26 lbs.



CHICAGO; SINGLE SHOT.

Stock and Outer Barrel of Maple, Mahogany Finish; Inserted Brass Barrel; Length of Rifle 32 in.

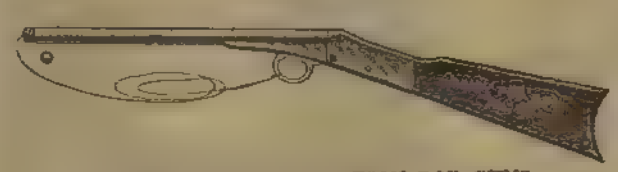
No. C—Shoots Air Rifle Shot; Breech Loader; Metal Parts of Polished Steel; Weight each about 1 lb. 10 oz. .....Per Dozen, $13.50

One Dozen in a Case; Weight per Case about 27 lbs.

We recommend the use of AIR RIFLE Shot in all Air Rifles, it being the size especially adapted to them.

Directions for Using Sent with Each Rifle.

POP GUNS.



BIG DAISY BREAK ACTION POP GUNS.

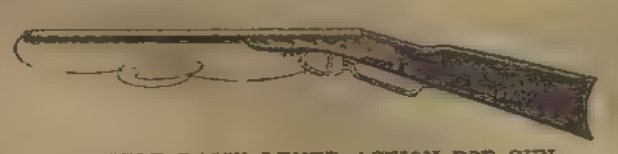
A Well Made, Easy Working Pop Gun; Made to Shoot a Cork attached to String or a Rubber Ball; Shoots with Loud Report.

Walnut Stock, Varnished; Frame and Barrel made of Steel, Nickel Plated

Per Dozen

No. 14P—WITH RUBBER BALL AND CORK; Length 31 in $0.50

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs.; Twelve Dozen in a Case; Weight per Case about 160 lbs.



LITTLE DAISY LEVER ACTION POP GUN.

A Well Made, Easy Working Lever Action Pop Gun, made to use with Cork attached to String; Shoots with a Loud Report.

Walnut Stock, Varnished; Frame and Barrel made of Steel, Nickel Plated.

Per Dozen

No. 10P—WITH CORK; Length 15 in.....$4.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 6 lbs.; Twelve Dozen in a Case; Weight per Case about 80 lbs.

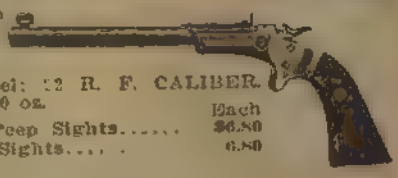
PISTOLS.

Half Octagon to Forward End of Frame, Balance Round; Blued Steel Barrel; Nickel Plated Frame, Plain Walnut Grip, Nicely Finished; Open Sight; Shoots 22 Short, Long, Extra Long and Long Rifle Cartridges.

STEVENS' TIP-UP.

No. 1—3½ in.; Tip-Up Barrel; 22 R. F. CALIBER; Weight each about 7 oz. ....Each, $4.10

STEVENS' DIAMOND MODEL TARGET PISTOLS



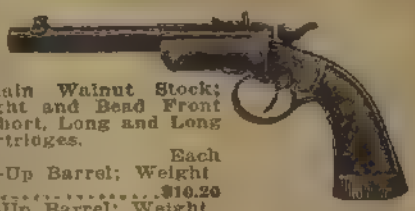
6 in. Tip-Up Barrel; 22 R. F. CALIBER. Weight each about 10 oz.

Each

No. 01—Globe and Peep Sights..... $6.80

No. 02—Plain Open Sights..... 6.80

STEVENS' OFF-HAND TARGET



Half Octagon Blued Barrel, Blued Frame; Plain Walnut Stock; Sporting Rear Sight and Bead Front Sight. Shoots 22 Short, Long and Long Rifle Rim Fire Cartridges.

Each

No. 35C—6 in. Tip-Up Barrel; Weight each 1 lb. 6 oz. $10.20

No. 35S—8 in. Tip-Up Barrel; Weight each 1 lb. 8 oz. 11.50

One in a Cardboard Box.

DERRINGER PISTOLS.

REMINGTON DOUBLE DERRINGER.

Rubber Handle.

41 S. R. F. CALIBER, 2 SHOTS; Weight each about 11 oz.

Each

No. 41R—Nickel Plated ..$8.50

No. 041R—Blued 8.50

One in a Cardboard Box.

Each

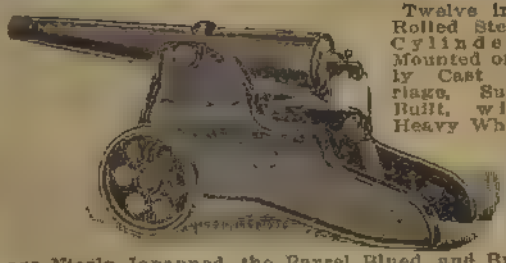
Pearl Handles $2.60

Ivory Handles 4.00

TO OPERATE—Throw Lever Down and Forward; This allows Tipping Up of the Barrel for Loading; Hammer works Automatically, Alternately Firing Upper and Lower Barrel

BREECH LOADING CANNON.

Dealers on Winchester Goods Invited to Write for Dealers' Lists. Write us for Market Prices.



Twelve in. Tapered Rolled Steel Barrel, Cylinder Bored, Mounted on a Shapely Cast Iron Carriage, Substantially Built, with two Heavy Wheels at the Forward End 3¾ in. in Diameter The Carriage and Wheels are Nicely Japanned, the Barrel Blued, and Breech Closure Hardened Black. The Length of the Cannon over all is 17 in.; 7¼ in. High and 7 in. Wide. It can be used 10 Gauge Paper or Brass Shells; We recommend Shells Loaded with 3 Drams of Black Powder, with Two Black Edge and one Card Wad, to produce the Loudest Report. The Cannon has so Few Parts that it cannot readily get out of order or cause any trouble in its operation. It can easily be dismounted.

Each

No. 10—WINCHESTER CANNON, 10 Gauge Only; Wgt each about 14 lbs $7.00

One in a Wood Box.

RIFLED BULLET SHELLS.

This is a Shell made of Brass so constructed that it will fit into Shot Gun Barrels.

(Cut One-half Actual Size.)

Into this Shell is fitted a Rifled Steel Barrel, Chambered for Small Bullet Cartridges. The outer Shell is Slotted and Bulged outward, which produces a springy effect, and when inserted into the Barrel will make a tight fit and will not loosen.

The Barrel is provided with an Extractor which will adjust to any Ejector, Common or Automatic, found on any Single or Double Barrel Shot Gun.

Each

No. 3—FOR 12 GAUGE SHOT GUNS; Length 4 in., made for 32 S. & W Smokeless Cartridges.....$5.30

One in a Cardboard Box; Weight Each about ¼ lb.

MAXIM SILENCERS.

The Maxim Silencer is a Practical Device for Use on Repeating and Single Shot Rifles, as it eliminates gun report noise and absorbs Two-thirds to Three-fourths of the Recoil.

Rifle Shot Cartridges work perfectly in the Silencer.

Not recommended for use on Revolvers, Automatic Pistols, Shot Guns nor Auto-loading Rifles, except the Winchester Model 1903, 22 Cal.

Couplings can be Supplied for Attaching Silencer to Rifle Barrels in all sizes EXCEPT for High Power OCTAGON Barrels.

The Coupling is to be driven on end of Rifle Barrel, being made to fit tightly by using one or more Spacers of Thin Sheet Steel; The Silencer is then Screwed on Coupling, a half turn only being necessary.

The End of Gun Barrel can be fitted to receive Silencer, thus eliminating the use of Coupling. When Silencer is unscrewed from Gun, the Barrel Sleeve is to be put on to Protect Threads on Coupling or End of Barrel from damage.

Each

No. 2209—1909 MODEL; FOR 22 CALIBER RIFLES, Complete with Coupling and Barrel Sleeve; Size 1⅜x1¼ in.; Weight each about 7 ozs.....$4.80

No. 2209 C—Extra Couplings for Silencers 1.50

No. 2209BS—Extra Barrel Sleeve for Silencers ..... .40

No. 2212—1912 MODEL; FOR 22 CALIBER RIFLES; Complete with Coupling and Barrel Sleeve; Size 1x4¼ in. Weight each about 5 ozs. 7.50

No. 2212 C—Extra Couplings for Silencers 1.50

No. 2212BS—Extra Barrel Sleeve for Silencers ..... .40

‡No. 22HP—1912 MODEL; FOR 22 CALIBER HIGH POWER RIFLES; Complete with Coupling and Barrel Sleeve; Size 1x5⅝ in.; Weight each about 7 ozs. 13.00

‡No. 22HPC—Extra Couplings and Silencers 4.00

‡No. 22HPBS—Extra Barrel Sleeve for Silencers ..... .40

‡No. 2528—1912 MODEL; FOR 25-20 CALIBER RIFLES; Complete with Couplings and Barrel Sleeve; Size 1x6 in.; Weight each about 7 ozs. 10.00

‡No. 2528 C—Extra Couplings for Silencers 1.50

‡No. 2528BS—Extra Barrel Sleeve for Silencers ..... .40

‡No. 3220—1909 MODEL; FOR 32-20 CALIBER RIFLES; Complete with Coupling and Barrel Sleeve; Size 1⅜x6⅛ in., Weight each about 12 ozs. 10.00

‡No. 3220 C—Extra Couplings for Silencers 1.50

‡No. 3220BS—Extra Barrel Sleeve for Silencers ..... .40

‡No. HPN—1909 MODEL; FOR HIGH POWER RIFLES, ANY CALIBER OVER 22; Complete with Couplings and Barrel Sleeve; Size 1⅜x6⅛ in.; Weight each about 12 ozs. 14.00

‡No. HPNC—Extra Couplings for Silencers 4.00

‡No. HPNBS—Extra Barrel Sleeve for Silencers ..... .40

‡No. USG—Official U. S. Government; FOR U. S. GOVERNMENT SPRINGFIELD RIFLES; Weight each about 12 ozs. 12.50

‡No. 2535—1912 MODEL; FOR 25-35 CALIBER RIFLES; Complete with Coupling and Barrel Sleeve; Size 1x5⅝ in.; Weight each about 8 ozs. 14.00

‡No. 2535 C—Extra Couplings for Silencers 4.00

‡No. 2535BS—Extra Barrel Sleeve for Silencers ..... .40

‡ Adapting Barrels to Receive Silencer and Furnishing Barrel Sleeve 3.50

ALWAYS SPECIFY MAKE, MODEL AND CALIBER OF RIFLE TO BE FITTED WITH SILENCER; ALSO WHETHER BARREL IS ROUND OR OCTAGON, AND WHETHER FULL OR HALF MAGAZINE, so we can Supply Proper Size Coupling

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

REVOLVERS.

YOUNG AMERICA.

Double Action; Small Frame. Nickel Plated; 2 in. Barrel 22 Caliber, Rim Fire, Short or Long. 7 SHOTS.

Each

No. 322—RUBBER HANDLE. Weight each 7½ ozs....$3.00

Per Pair

Pearl Handles For No. 322 Revolvers $1.80

32 S. & W. Caliber, Central Fire. 5 SHOTS.

No. 322—RUBBER HANDLE; Wgt. each 9 ozs..Each, $3.00

Pearl Handles for No. 322 Revolvers .....Per Pair, 1.80

Double Action; Round Barrel, Rubber Handle, Nickel Plated; Vest Pocket Style. 6 SHOTS.

No. 321¼VP—32 CALIBER; 1⅛ in. Barrel; Central Fire; Weight 8½ oz.; Shoots S. & W. C. F. Cartridges .....Each, $3.00

Pearl Handles for No. 321¼VP ...Per Pair, $1.80

BABY HAMMERLESS 6 SHOTS

22 Caliber, Extra Small Frame; Double Action, Folding Trigger; 1¼ in. Barrel. Length over all 4 in.; Weight about 4½ oz.; Tool Steel Works, American Made Interchangeable Parts; for Vest Pocket or Ladies; Shoots 22 Short, Black or Smokeless Powder R. F. Cartridges.

RUBBER HANDLE

Each

No. 51—Nickel Plated $3.70

No. 051—Blued Finish 4.00

PEARL HANDLE

No. 51P—Nickel Finish $5.80

No. 051P—Blued Finish 6.10

Double Action, Octagon Barrel, Rubber Handle.

NICKEL PLATED.

32 CALIBER, S. & W.; Central Fire Cartridges; 6 SHOTS

Each

No. 322½—2½ IN. BARREL; Weight each 16 oz.....$3.00

No. 324½—4½ IN. BARREL; Weight each 17 oz..... 3.70

No. 326 —6 IN. BARREL; Weight each 18 oz..... 4.00

38 CALIBER S. & W. Central Fire Cartridges; 5 SHOTS.

No. 382½—2½ IN. BARREL; Weight each 15 oz..... 3.00

No. 384½—4½ IN. BARREL; Weight each 16 oz..... 3.70

No. 386 —6 IN. BARREL; Weight each 17 oz..... 4.00

44 CALIBER Webley Central Fire Cartridges; 5 SHOTS.

No. 442½—2½ IN. BARREL; Weight each 19 oz..... 3.70

No. 444½—4½ IN. BARREL; Weight each 20 oz..... 4.00

BLUED.

38 CALIBER S. & W. Central Fire Cartridges; 5 SHOTS

No. 0382½—2½ IN. BARREL; Weight each 15 oz....$3.60

No. 0384½—4½ IN. BARREL; Weight each 16 oz.... 4.00

Pearl Handles for above .....Per Pair, $2.60

One in a Cardboard Box.

CROW BARS

Solid Forged Steel; Oil Finish; Tempered Point; Round Tapered Handle; Octagon Shank; Square Shoulder

No. WP—WEDGE POINT

Weight, Lbs.	12	14	16	18	20
Length, Feet	4½	4½	4¾	5	5 1-6
Size Square, Inches	1⅛	1⅛	1⅛	1⅛	1¼
Per Pound, All Sizes					$0.10
Weight, Lbs.	**22**	**24**	**26**	**28**	**30**
Length, Feet	5½	5½	6	6	6
Size Square, Inches	1⅜	1⅜	1½	1⅜	1⅜
Per Pound, All Sizes					$0.10

No. PP—PINCH POINT

Weight, Lbs.	12	14	16	18	20
Length, Feet	4½	4½	4¾	5	5 1-6
Size Square Inches	1⅛	1⅛	1⅛	1⅛	1¼
Per Pound, All Sizes					$0.10
Weight Lbs	**22**	**24**	**26**	**28**	**30**
Length Feet	5½	5½	6	6	6
Size Square, Inches	1⅜	1⅜	1½	1⅜	1⅜
Per Pound, All Sizes					$0.10

Loose

RAILROAD TRACK TOOLS

Solid Forged Steel, Oil Finish, Tempered Point, Tapered Round Handle, Octagon Shank, Square Shoulder

No. LB—LINING BARS DIAMOND POINT

Used for Lining up and Prying Rails into Position

Weight, Lbs.	18	20	24
Length, Feet	5	5 1-6	5½
Size Square, Inches	1⅜	1½	1⅝
Per Pound, All Sizes			$0.10

No. TB TAMPING BARS

Used for Driving Ballast Under Railroad Ties

Weight, Lbs.	18	22
Length, Feet	6	6
Size of Tamper, Inches	3½x3½	4x4
Per Pound, All Sizes		$0.12

Loose

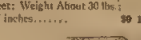
CLAW BARS

Forged Steel, Oil Finish; Tempered Working Ends; Tapered; Round Handle, Octagon Shank, Square Shoulder; For Drawing Spikes, Prying Rails, etc., also Used in Wrecking Buildings, Bridges, etc

No. 26—Goose Neck; Length About 5 feet; Weight About 30 lbs.; Size of Square Shoulder 1⅜x1⅜ inches..... Per Pound $0.14

No. 28 Verona Pattern; with Heel; Length About 5 feet; Weight About 30 lbs., Size of Square Shoulder 1⅜x1⅜ inches..... Per Pound $0.12

Loose



RAIL FORKS

Forged Steel, Oil Finish; Round Handle; Two Flattened Prongs on One End; Chisel Point on Other End

No. 3—Weight About 13 lbs., Length 30 inches; Size of Handle 1¼ inches, Slot 4x¾ inch; Width Across Prongs 8 inches Per Pound $0.17

Loose

TRACK WRENCHES

Drop Forged, Solid Steel, Oil Finish, Hardened Ends

No. 4—STRAIGHT; SINGLE END

Length 24 inches

Opening, Inches	1⅛	1⅜	1⅝
For Nut, Inches	⅝	¾	⅞
Weight About, Lbs.	5	5½	6
Per Pound, All Sizes			$0.12

No. 5—STRAIGHT; DOUBLE END

Length 24 inches

Opening, Inches	1⅛ and 1⅜	1⅜ and 1⅝
For Nut, Inches	⅝ and ¾	¾ and ⅞
Weight About, Lbs.	6	7
Per Pound, All Sizes		$0.19

No. 8—"S" WRENCH; DOUBLE END

Length 24 inch

Opening, Inches	1⅛ and 1⅜	1⅜ and 1⅝
For Nut, Inches	⅝ and ¾	¾ and ⅞
Weight About, Lbs.	6½	6⅝
Per Pound, All Sizes		$0.19

Loose

RAIL TONGS

Forged Tool Steel, Oil Finish; 1¼ inch Round Handles; Squared Arms, Heavy Steel Rivet

Per Pound

No. 20—For 35 to 100 lb. Rails, Width from End to End 4 Feet, Drop 1 foot; Weight About 20 lbs. $0.17

TIE TONGS

Per Pound

No. 21—For Carrying Ties, Boards etc., Width from End to End 34 inches; Drop 13 inches, Weight About 15 lbs. $0.17

Loose

*RUGBY MOTOR TRUCKS

ONE TON—30 HORSE POWER

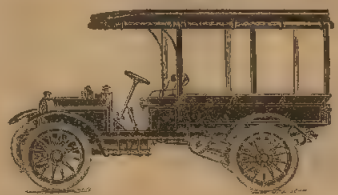
Motor—4 Cylinders en bloc. Valves Enclosed on Left Hand Side. Bore 3½ inch, Stroke 5 inches; 30 H. P.
Cooling—Water, by Centrifugal Pump.
Ignition—Remy, Latest Improved Model R. D.
Carburetor—Schebar Model L.
Lubrication—Forced Feed with Gear Pump.
Clutch—Multiple Disc Operating in Oil.
Transmission—Selective Type, 3 Speeds Forward and Reverse. Mounted on F. & S. Imported Ball Bearings.
Differential—Bevel Gear.
Axles—Front I-Beam; Rear Rectangular, Ball Bearings.
Brakes—Service Brake on Jack Shaft, 10x2 inches, Emergency on Rear Wheels, 14x2 inches.
Springs—Semi-Elliptic Front 36x2 inches, Rear 46 x 2 inches.
Frame—Pressed Steel Channel.
Tires—Front, 34x3½ inches; Rear, 34x4 inches, S. A. E. Standard, Bolted on, Flanged Truck Type
Drive—Double Side Chains, 1-inch Pitch; ⅝ inch Roller.
Wheel Base—118 inches.
Wheel Tread—56 inches.
Road Clearance—13 inches
Body—To Order when not Standard.
Carrying Capacity—One Ton, 2000 lbs.
Speed Maximum—16 Miles per Hour
Equipment—Front and Rear Fenders, 3 Oil Lamps, Horn, Battery, Complete Kit of Tools.

Each
Rugby Motor Truck, with Plain Express Body; Complete as Shown Above..... Price upon Application

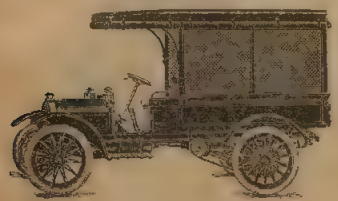
Each
Rugby Motor Truck, with Paneled Side Express Body Complete as Shown above ..... Price upon Application

We Can Make Any Style Body Desired and Will Quote Prices on Special Bodies Upon Request.

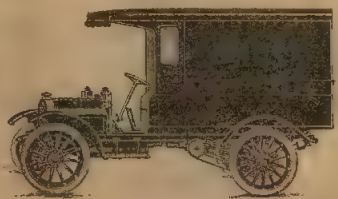
Rugby Motor Truck, With Stake Body Complete as Shown Above.
Each
With 3-foot Stakes ..... Price upon Application
With 4-foot Stakes ..... Price upon Application
With 4 foot Stakes ..... Price upon Application



Rugby Motor Truck, with Express Body and Top, as shown Above.
Each
With Plain Sides. ..... Price upon Application
With Panel Sides; Upright and Bed Heavily Ironed Made Especially for Heavy Work..... Price upon Application



Rugby Motor Truck; with Express Body; Top and Wire Screens as Shown Above.
Each
With Plain Sides ..... Price upon Application
With Panel Sides, Uprights and Bed Heavily Ironed, Made Especially For Heavy Work ..... Price upon Application



Each
Rugby Motor Truck; with Closed-in Body as Illustrated above; This is an Extremely Fine Looking Rig, Suitable for the Most Aristocratic Store ..... Price upon Application

WE SOLICIT CORRESPONDENCE ON MOTOR TRUCKS

"DIAMOND EDGE IS A QUALITY PLEDGE"

*R[illegible]BY MOTOR TRUCKS

ONE TON—30 HORSE POWER

LUBRICATION.—The Lubrication is by Integral Force Feed System. Oil is Pumped from the Reservoir by a Gear Pump and Forced through a Duct Cast Integral with the Upper Half of Crank Case. From this Duct it is Distributed to the Main Bearings Passing through the Hollow Crank Shaft to the Connecting Rod Bearings. The Main Bearings Supply Oil to the Pistons by Centrifugal Force. Oil Gauge and Breather are Provided in Close Proximity to Each Other.

BEARINGS. All Main Bearings are of Die Cast Parson's White Bronze and Provided with Grooves to Insure Perfect Lubrication. All Other Bearings are of Phosphor Bronze and have Oil Pockets and Grooves. They are of Ample Size and all Bearings are Carefully Scraped. The Main and Connecting Rod Bearings are Provided with Copper Shims for Adjustment.

CARBURETOR.—Latest Improved Schebler Model L.

IGNITION.—Dual with Latest Improved Type Remy Model R D Magneto, with Tube Coil Mounted Under Hood, Kork Switch and Dry Batteries.

CLUTCH. Multiple Disc 13 Raybestos Faced Discs 8¾ inch in Diameter. Operating in Oil, thus Eliminating Wear, allowing Smooth Application of Power to the Jack Shaft.

TRANSMISSION. 4 Speed Forward and 1 Reverse, Selective Type, Mounted on F. & S. Imported Ball Bearings. Gears and Shafts 3½ per cent Nickel Steel. Case Aluminum Provided with Inspection Plate.

CONTROL AND STARTING CRANK. Center Control is Mounted on the Rear End of the Transmission, while the Starting Crank is Formed Integral with the Front Support of the Power Plant.

POWER PLANT AND MOUNTING. The Motor, Clutch and Transmission are Built in One Unit and Mounted on 3 Points of Support to Relieve the Power Plant of the Various Shocks to Which Irregularities in the Road Subject the Vehicle. The Front Support is Formed Integral with the Front Cross Member, while the Two Rear Supports are Cast Integral with the Transmission Housing and Flexibly Mounted on Heavy Cast Steel Arms.

UNIVERSAL JOINT.—There is but One Universal Joint which is Enclosed in the Dust Proof Pressed Steel Case.

JACK SHAFT. Drive Shaft is Carried in Two Bronze Bushed Steel Mounted on Heavy Roller Bearings. Pinion and Gear Adjustable for Wear. Flexibly Mounted on Side Frame Members.

AXLES. Front Axle I Beam Forging, Spindles 1½ Tapering to 1⅜ inch. The Axle is Bored with Hard Steel Bushing where Knuckle King Bolt Passes Through. Rear Axle One Piece Forging, Rectangular Section.

CHAINS.—Drive Chain ¾ inch Roller, 1½ inch Wide, Width of Rollers ⅝ inch. Radius Rods are of the Full Universal Type and Allow 2 inches or 2 Full Links of Chain Adjustment.

SPRINGS.—Front, 2x36 inches Semi-Elliptic; Rear, 2x46 inches Semi-Elliptic.
Auxiliary Overload Load Spring 2x32 inches Semi Elliptic.
Shackle Pins ⅝ inch Diameter Provided with Oilers, Spring Caps 17/32 inch Diameter.

FRAME.—Pressed Steel, .25 Carbon Steel. Filler Boards for Hood Formed Integral with Straight Side Rail of Frame. Straight Side Rails 32 inches Wide. Cold Riveted and Provided with 4 Cross Members with Integral Gussets.

STEERING GEAR. 1¾ inch Post, 16 inch Wheel, Steering Mechanism, Worm and Nut Self Adjusting. Drag Link Provided with Cushion Springs.

WHEELS.—Front 34 inch with 3½ inch Solid Tire; 12-1½ inch Square Spokes, S. A. E. Flange Truck Type Tires.
Rear, 34 inch with 4 inch Solid Tire, 14-1½ inch Square Spokes, S. A. E. Flange, Truck Type Tires.

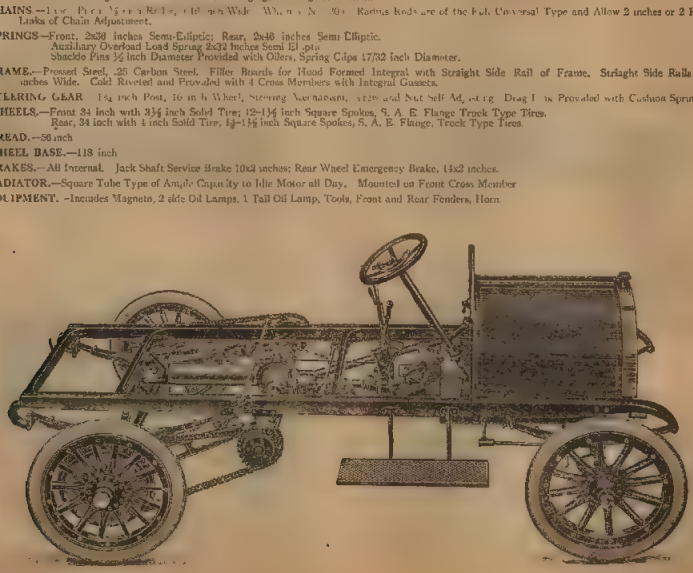
TREAD.—56 inch

WHEEL BASE.—138 inch

BRAKES.—All Internal. Jack Shaft Service Brake 10x2 inches; Rear Wheel Emergency Brake, 14x2 inches.

RADIATOR.—Square Tube Type of Ample Capacity to Idle Motor all Day. Mounted on Front Cross Member.

EQUIPMENT.—Includes Magneto, 2 side Oil Lamps, 1 Tail Oil Lamp, Tools, Front and Rear Fenders, Horn.



Each

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"DIAMOND EDGE IS A QUALITY PLEDGE"

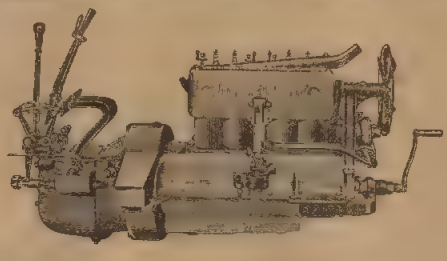
*RUGBY MOTOR TRUCKS

ONE TON—30 HORSE POWER

MOTOR.—Wisconsin Type 'C' Long Stroke, 3¾ inch Bore, 5 inch Stroke, 30 Horse Power 4 Cylinder Vertical, 4 Cycle Cylinder Cast en bloc from the Finest Grade of Close Grained Grey Iron. The Cylinder and Valve Passages are Entirely Water Jacketed and a Drain Cock Situated on the Lowest Level Permits Complete Drainage. The Water Inlet Pipe is Formed Integral with the Intake Manifold so that the Charge is Thoroughly Heated before Entering the Cylinders. The Intake and Exhaust Valves are Situated on the Left Hand Side of the Cylinder and the Stems and Push Rods are Enclosed.

All Manifolds are Cast in One Piece to Prevent Leaks and are Highly Polished. The Combustion Perfectly Balanced Before they are Machined so that an Exact Fit of the Parts may be had after the Layout is applied. The Cylinders are bored on a Special Rod, Bearing Metal Weighing Eight Ounces, and Reamed to Perfection after a thorough seasoning are Ground to a Perfect Fit. They are then Subjected to a Water Pressure to Insure Against Possible Leaks or Imperfections.

PISTONS AND RINGS.—The Pistons are Four Inches Long and Made from Semi Steel and Qualities to Give Long Life as the Cylinders and are Thoroughly Pickled before being Machined. They are Reamed Exactly to One Quarter Inch Over Size for Bearing and Fitted to the Piston Pins. The Pistons are Cam Ground from the Pin Bosses Lengthwise, but being Slotted at the Top and Bottom are Left Round to Allow for Expansion. The Piston Rings are Pre-Shrunk Cast Iron. The Compression Rings are Made from Wire Spring Steel and Fitted in the Bottom and Sides and Lie Accurately in the Grooves. The Wiper Ring Controls Oil Leakage, but Carbon Oil and Carbon Deposit which they Scrape, Gathers in the Grooves under this Ring Preventing Perfect Compression. each Piston is Provided with Oil Grooves and Thoroughly Tested for Accuracy and Imperfections.



Right Hand Side of Power Plant, Showing Carburetor, Water Jacketed Intake Manifold, Foot Pedals and Gear Shifting Mechanism.

This illustration shows the Complete Power Plant mounted as one unit and exhibits the Remarkable Simplicity of Same

We use Rugby Trucks to do our own Hauling. We have tested them out thoroughly and find them Remarkably Efficient, Perfectly Reliable and very Economical to Operate. We believe them to be the Best One Ton Trucks Manufactured.

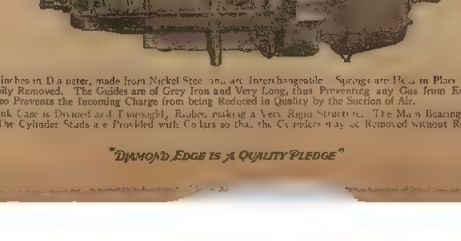
PISTON PIN.—The Piston Pin is 1⅛ inch in Diameter and 2⅛ inches Long made from Hollow Tool Steel, Hardened and Ground to Size and is Ingeniously Fastened to the Connecting Rod by Means of a Bolt, thus Giving a Large Bearing Surface.

CONNECTING RODS.—The Connecting Rods are 10⅛ inches long of I Beam Section, Drop Forged from .40 Carbon Steel. They are Fitted with Parson's White Bronze Bushings on the Crank Shaft End.

CRANK SHAFT.—The Crank Shaft is also Drop Forged from .40 Carbon Steel and Especially Heat Treated. They are Carefully Pickled and Ground to Size on all Bearings. The Fly Wheel Flange is Forged Integral with the Shaft. The Main and Connecting Rod Bearings are 1⅝ inch in Diameter. Connecting Rod Bearings are 2¼ inch long, front and Center Main Bearings 2¾ inches long, while the Rear Main Bearing is 4 inches Long.

CAM SHAFT.—The Cam Shaft is 15/16 inch in Diameter and Made from .40 Carbon Steel and Provided with three Large Bearings. All Bearings are Carefully Ground to Size, while the Cams are Oil Tempered and Ground to Gauge.

PUSH RODS.—Push Rods of Large Diameter made from Tool Steel Hardened and Ground to Size. They are of the Mushroom Type and Provided with Adjustment Spiral Springs are Used to keep the Rollers in Contact with the Cam, thus Eliminating Cam Noise. Push Rod Guides are Phosphor-Bronze and are Fastened to the Crank Case by Means of Studs and Lock Washers. They are Highly Polished.



Left Hand Side of Unit Power Plant, Showing Magneto, Inclosed Valves, Water Pump, Ribbed Exhaust Manifold, Oil Level Indicator, Breather and Control Levers.

All Working Parts Under Cover, No Dust or Dirt can Reach them.

If you are Interested in Motor Trucks we will be Pleased to give you more Detailed Information upon Request

Rugby Trucks are Built for Hard Service. We Stand Behind and Guarantee them.

VALVES. Valves are 1⅝ inches in Diameter, made from Nickel Steel and are Interchangeable. Springs are Held in Place by Means of Split Beveled Washers and are Easily Removed. The Guides are of Grey Iron and Very Long, thus Preventing any Gas from Escaping when the Exhaust Valve Opens, and also Prevents the Incoming Charge from being Reduced in Quality by the Suction of Air.

CRANK CASE. The Crank Case is Dressed and Thoroughly Rubbed, making a Very Rigid Structure. The Main Bearings are Carried in the Upper Half of the Case. The Cylinder Studs are Provided with Collars so that the Cylinders may be Removed without Removing the Lower Half of the Case.

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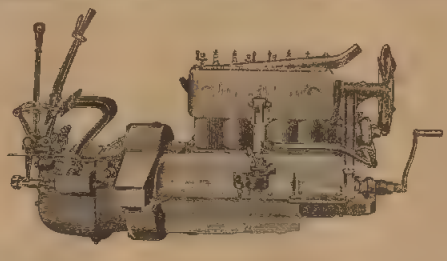

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CONNECTING RODS.—The Connecting Rods are 10⅛ inches long of I Beam Section, Drop Forged from .40 Carbon Steel. They are Fitted with Parson's White Bronze Bushings on the Crank Shaft End.

CRANK SHAFT.—The Crank Shaft is also Drop Forged from .40 Carbon Steel and Especially Heat Treated. They are Carefully Pickled and Ground to Size on all Bearings. The Fly Wheel Flange is Forged Integral with the Shaft. The Main and Connecting Rod Bearings are 1⅝ inch in Diameter. Connecting Rod Bearings are 2¼ inch long, front and Center Main Bearings 2¾ inches long, while the Rear Main Bearing is 4 inches Long.

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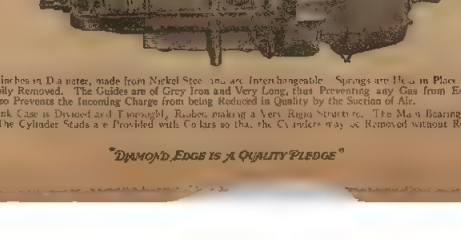

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*R[illegible]BY MOTOR TRUCKS

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BEARINGS. All Main Bearings are of Die Cast Parson's White Bronze and Provided with Grooves to Insure Perfect Lubrication. All Other Bearings are of Phosphor Bronze and have Oil Pockets and Grooves. They are of Ample Size and all Bearings are Carefully Scraped. The Main and Connecting Rod Bearings are Provided with Copper Shims for Adjustment.

CARBURETOR.—Latest Improved Schebler Model L.

IGNITION.—Dual with Latest Improved Type Remy Model R D Magneto, with Tube Coil Mounted Under Hood, Kork Switch and Dry Batteries.

CLUTCH. Multiple Disc 13 Raybestos Faced Discs 8¾ inch in Diameter. Operating in Oil, thus Eliminating Wear, allowing Smooth Application of Power to the Jack Shaft.

TRANSMISSION. 4 Speed Forward and 1 Reverse, Selective Type, Mounted on F. & S. Imported Ball Bearings. Gears and Shafts 3½ per cent Nickel Steel. Case Aluminum Provided with Inspection Plate.

CONTROL AND STARTING CRANK. Center Control is Mounted on the Rear End of the Transmission, while the Starting Crank is Formed Integral with the Front Support of the Power Plant.

POWER PLANT AND MOUNTING. The Motor, Clutch and Transmission are Built in One Unit and Mounted on 3 Points of Support to Relieve the Power Plant of the Various Shocks to Which Irregularities in the Road Subject the Vehicle. The Front Support is Formed Integral with the Front Cross Member, while the Two Rear Supports are Cast Integral with the Transmission Housing and Flexibly Mounted on Heavy Cast Steel Arms.

UNIVERSAL JOINT.—There is but One Universal Joint which is Enclosed in the Dust Proof Pressed Steel Case.

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AXLES. Front Axle I Beam Forging, Spindles 1½ Tapering to 1⅜ inch. The Axle is Bored with Hard Steel Bushing where Knuckle King Bolt Passes Through. Rear Axle One Piece Forging, Rectangular Section.

CHAINS.—Drive Chain ¾ inch Roller, 1½ inch Wide, Width of Rollers ⅝ inch. Radius Rods are of the Full Universal Type and Allow 2 inches or 2 Full Links of Chain Adjustment.

SPRINGS.—Front, 2x36 inches Semi-Elliptic; Rear, 2x46 inches Semi-Elliptic.
Auxiliary Overload Load Spring 2x32 inches Semi Elliptic.
Shackle Pins ⅝ inch Diameter Provided with Oilers, Spring Caps 17/32 inch Diameter.

FRAME.—Pressed Steel, .25 Carbon Steel. Filler Boards for Hood Formed Integral with Straight Side Rail of Frame. Straight Side Rails 32 inches Wide. Cold Riveted and Provided with 4 Cross Members with Integral Gussets.

STEERING GEAR. 1¾ inch Post, 16 inch Wheel, Steering Mechanism, Worm and Nut Self Adjusting. Drag Link Provided with Cushion Springs.

WHEELS.—Front 34 inch with 3½ inch Solid Tire; 12-1½ inch Square Spokes, S. A. E. Flange Truck Type Tires.
Rear, 34 inch with 4 inch Solid Tire, 14-1½ inch Square Spokes, S. A. E. Flange, Truck Type Tires.

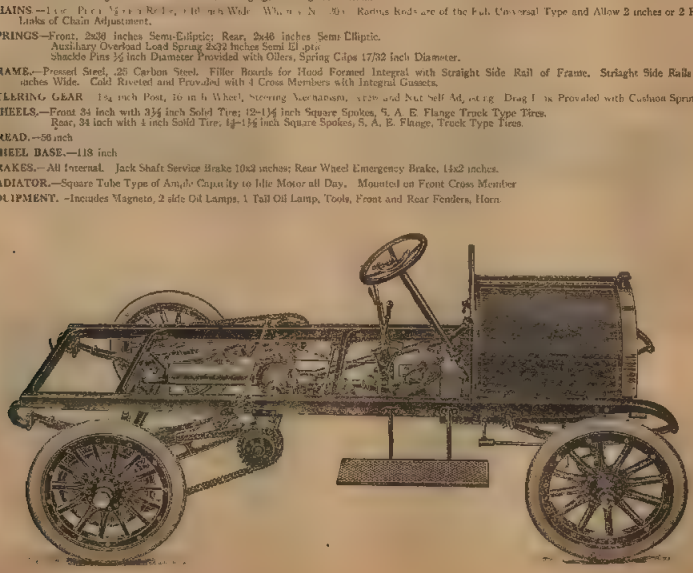
TREAD.—56 inch

WHEEL BASE.—138 inch

BRAKES.—All Internal. Jack Shaft Service Brake 10x2 inches; Rear Wheel Emergency Brake, 14x2 inches.

RADIATOR.—Square Tube Type of Ample Capacity to Idle Motor all Day. Mounted on Front Cross Member.

EQUIPMENT.—Includes Magneto, 2 side Oil Lamps, 1 Tail Oil Lamp, Tools, Front and Rear Fenders, Horn.



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Transmission—Selective Type, 3 Speeds Forward and Reverse. Mounted on F. & S. Imported Ball Bearings.
Differential—Bevel Gear.
Axles—Front I-Beam; Rear Rectangular, Ball Bearings.
Brakes—Service Brake on Jack Shaft, 10x2 inches, Emergency on Rear Wheels, 14x2 inches.
Springs—Semi-Elliptic Front 36x2 inches, Rear 46 x 2 inches.
Frame—Pressed Steel Channel.
Tires—Front, 34x3½ inches; Rear, 34x4 inches, S. A. E. Standard, Bolted on, Flanged Truck Type
Drive—Double Side Chains, 1-inch Pitch; ⅝ inch Roller.
Wheel Base—118 inches.
Wheel Tread—56 inches.
Road Clearance—13 inches
Body—To Order when not Standard.
Carrying Capacity—One Ton, 2000 lbs.
Speed Maximum—16 Miles per Hour
Equipment—Front and Rear Fenders, 3 Oil Lamps, Horn, Battery, Complete Kit of Tools.

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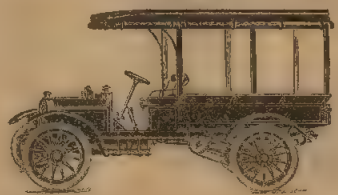
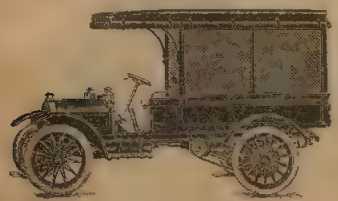
We Can Make Any Style Body Desired and Will Quote Prices on Special Bodies Upon Request.

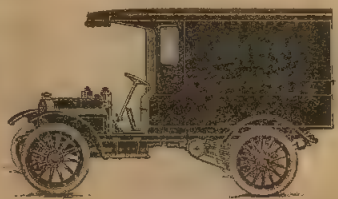
Rugby Motor Truck, With Stake Body Complete as Shown Above.
Each
With 3-foot Stakes ..... Price upon Application
With 4-foot Stakes ..... Price upon Application
With 4 foot Stakes ..... Price upon Application



Rugby Motor Truck, with Express Body and Top, as shown Above.
Each
With Plain Sides. ..... Price upon Application
With Panel Sides; Upright and Bed Heavily Ironed Made Especially for Heavy Work..... Price upon Application



Rugby Motor Truck; with Express Body; Top and Wire Screens as Shown Above.
Each
With Plain Sides ..... Price upon Application
With Panel Sides, Uprights and Bed Heavily Ironed, Made Especially For Heavy Work ..... Price upon Application



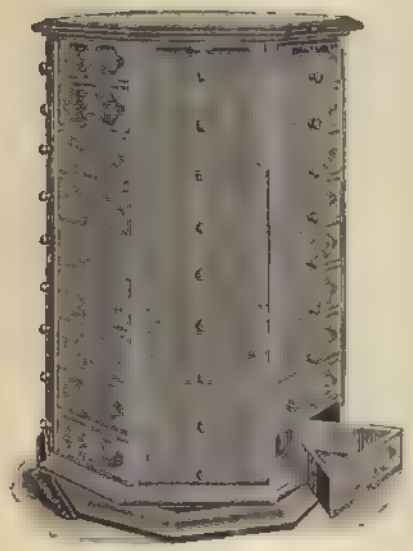
Each
Rugby Motor Truck; with Closed-in Body as Illustrated above; This is an Extremely Fine Looking Rig, Suitable for the Most Aristocratic Store ..... Price upon Application

WE SOLICIT CORRESPONDENCE ON MOTOR TRUCKS

"DIAMOND EDGE IS A QUALITY PLEDGE"

SCREW AND BOLT CASES

AMERICAN



Nos. 1 to 4 Screw Cases

REVOLVING SCREW CASES

Cherry Stained

Capacity of No. 1 Case:

One-half Inch—3, 4, 5, 6, 7.
Five-eighths Inch—5, 6, 7, 8.
Three-fourths Inch—5, 6, 7, 8, 9.
Seven-eighths Inch—7, 8, 9, 10.
One Inch—6, 7, 8, 9, 10, 11, 12, 13, 14.
One and One-fourth Inch—7, 8, 9, 10, 11, 12, 13, 14, 15.
One and One-half Inch—8, 9, 10, 11, 12, 13, 14, 15, 16.
One and Three-quarter Inch—9, 10, 11, 12, 13, 14, 15, 16, 17.
Two Inch—10, 11, 12, 13, 14, 15, 16, 17, 18.
Two and One-half Inch—12, 13, 14, 15, 16.
Three Inch—16, 18, 20, 22.

No. 2 Case Contains the Following Sizes in Addition to No. 1 Case:

Three-eighth Inch—2, 3, 4.
Five-eighth Inch—4.
Three-fourth Inch—4, 10.
Seven-eighth Inch—6, 11.

No. 3 Case Contains the Following Sizes in Addition to No. 1 Case:

One-fourth Inch—1, 2.
Three-eighth Inch—2, 3, 4, 5.
Five-eighth Inch—4, 9.
Three-fourth Inch—4, 10.
Seven-eighth Inch—6, 11, 12.
One Inch—15.
One and One-fourth Inch—16.
One and Three-fourth Inch—18.

No. 4 Case Contains the Following Sizes in Addition to No. 1 Case:

One-fourth Inch—1, 2.
Three-eighth Inch—2, 3, 4, 5, 6.
One-half Inch—8.
Five-eighth Inch—4, 9, 10, 11.
Three-fourth Inch—4, 10, 11, 12.
Seven-eighth Inch—6, 11, 12.
One Inch—15, 16.
Three and One-half Inch—16, 18, 20.

	Each
No. 1—Screw Case, 72 Drawers, Height 33 in., Width 21 in., Weight 120 Lbs.	$33 00
No. 2—Screw Case, 80 Drawers, Height 36 in., Width 21 in., Weight 130 Lbs.	37 50
No. 3—Screw Case, 88 Drawers, Height 39 in., Width 24 in., Weight 134 Lbs.	42 00
No. 4—Screw Case, 96 Drawers, Height 42 in., Width 24 in., Weight 134 Lbs.	46 00

REVOLVING BOLT CASES

Cherry Stained

	Each
No. 1—Bolt Case, 98 Drawers, Height 60 in., Width 30 in., Weight 380 Lbs.	$65 30
No. 2—Bolt Case, 104 Drawers, Height 65 in., Width 30 in., Weight 400 Lbs.	71 30

Capacity of No. 1 Case:

Tire Bolts

Three-sixteenth Inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
One-fourth Inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
Five-sixteenth Inch—2, 2¼, 2½.

Carriage Bolts

One-fourth Inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
Five-sixteenth Inch—1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
Three-eighth Inch—2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 6.
Seven-sixteenth Inch—2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
One-half Inch—2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12.

No. 2 Case Contains the Following Sizes in Addition to No. 1 Case:
Seven-sixteenth Inch—7½, 8½, 9½.
One-half Inch—7½, 8½, 9½.

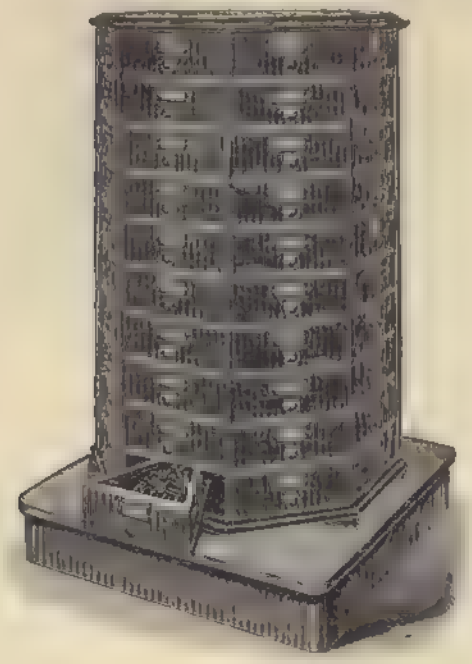
Nos. 1 and 2 Bolt Case

Note—Not Carried in Stock. Sold for Direct Factory Shipment Only

SCREW AND BOLT CASES

AMERICAN

REVOLVING SCREW CASES



Poplar Wood Case, Cherry Stained

	Each
No. 18 —Screw Case, 80 Drawers, with Knobs Only, Height 51 in., Width 30 in., Weight Each 250 Lbs.	$52.50
No. 18A—Screw Case, 80 Drawers, with Knobs and Label Holders, Height 51 in Width 30 in., Weight Each 250 Lbs.	58.00

REVOLVING BOLT CASES

Poplar Wood, Cherry Stained

	Each
No. 24—Bolt Case, 80 Drawers, 60 Drawers, 6x8x3½ in., and 20 Drawers 7x9x3½ in., Height 51 in., Width 30 in., Weight Each 350 Lbs.	$93.00

All American Screw and Bolt Cases are equipped with iron standards, screwed firmly into an iron hub in the bottom which takes the perfectly true and solid Tie rods and bottoms are double, with the grain of the wood crossed, glued and screwed together, and braced with iron rods which bind the whole firmly together Made of best seasoned Tennessee Poplar. The fronts of drawers are made of the best Norway Pine

Note—Not Carried in Stock. Sold for Direct Factory Shipment Only

MONEY DRAWERS

TUCKER'S

	Per Dozen
No. 504 Oak Front, Varnished Plain Woodwork Size Including Cover 4⅝ in. Thick, 15 in Deep, 18¼ in Wide, Spoon Tray Slides Sideways, 3⅝ in Bowls, 3½x8 in., Bill Spaces, Lock with 32 Changes, Gong Sounds as Till is Opened, Weight Per Dozen 140 Lbs.	$8.00

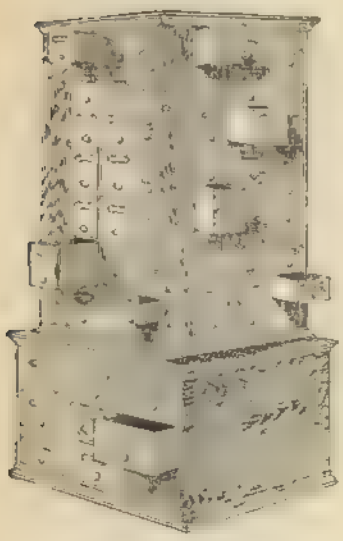
One-half Dozen in a Crate

	Per Dozen
No. 503 Varnished Oak Front, Terry Stained Woodwork, Drawer Gained Together, Size Including Cover 4⅝ in Thick 16½ in. Deep, 18¼ in. Wide, 3⅝ in Bowls, 3½x8 in. Bill Spaces, Improved Lock with 32 Changes, Gong Sounds as Till is Opened, Weight Per Dozen 160 Lbs	$3 50

One-half Dozen in a Crate

SCREW AND BOLT CASES

BROWN'S PERFECTION



No. 130

Revolving, Screw and Bolt Case Combined

Good Tennessee Oak, Hard Oil Finish

Capacity of No. 112 Case:

Washers, ¼, ⅜, ½
Bolts, ¼x1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5
Bolts, ⅜x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3½, 4, 4½, 5, 6
Bolts, ⅜x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8.
Bolts, ½x2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12
Screws, ⅜, 3, 4, 5, (In one drawer)
Screws, ½, 3, 4, 5, 6
Screws, ⅝, 4, 5, 6, 7
Screws, ¾, 5, 6, 7, 8, 9
Screws, ⅞, 6, 7, 8, 9
Screws, 1, 7, 8, 9, 10, 11
Screws, 1¼, 8, 9, 10, 11, 12
Screws, 1½, 9, 10, 11, 12, 13, 14
Screws, 1¾, 11, 12, 13, 14.
Screws, 2, 11, 12, 13, 14.

No. 130 Case Contains the Following Sizes in Addition to No. 112 Case:
Washers, ⅝, ¾
Bolts, ⅝—5, 6, 7, 8, 9, 10, 11, 12
Bolts, ¾—7, 8, 9, 10, 11, 12, 14, 16.

	Each
No. 112—Upper Case Only, 112 Drawers, 56 Drawers for Bolts and 56 for Screws. Case is 24 in. Square and 50 in. High, with Knobs and Label Holders with Labels for Bolts and Screws Mentioned Above, Weight Each 300 Pounds	$48 00
No. 130—Same as No. 112, but Mounted on a Base 30 in. Square and 20 in. High, 130 Drawers, 74 Drawers for Bolts and 56 for Screws, with Knobs and Label Holders with Labels for Bolts and Screws Mentioned Above, Weight Each 480 Lbs	60 00

LARGE SCREW CASES BUILT ON ABOVE PLAN

No. 168—Revolving Screw Case, 168 Drawers, Same Size as No. 112, Weight Each 300 Lbs	$60 00
No. 200—Revolving Top Screw Case, 200 Drawers, Same Size as No. 130, Weight Each 480 Lbs	75 00

REVOLVING BOLT CASE

Oak, Hard Oil Finish

Capacity of No. 40 Case:

Bolts ¼x1½, 1¾, 2, 2¼, 2½, 3, 3½, 4, 4½, 5.
Bolts ⅜x1½, 1¾, 2, 2½, 3, 3½, 4, 4½, 5, 6.
Bolts, ⅜x2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8.
Bolts, ½x3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10.

No. 40

	Each
No. 40—40 Drawers, with Knobs and Label Holders, with Labels for Bolts Mentioned Above, Case 22 in. Diameter, 37 in. High, Weight Each 180 Lbs	$24.00

SCREW CASES

Built on exactly the same plan and same size as No. 40 Bolt Case above. The only difference is the drawers are smaller; there are 80 in the same space as the 40 shown in cut of No. 40

	Each
No. 80—Screw Case, 80 Drawers, Weight Each 180 Lbs	$32 00

The best Bolt Case ever made for general stores. It will hold more bolts than other cases of same size, because the drawers are square (not triangular). The drawers completely fill the case, leaving no vacant space in center. Drawers are made of various sizes suited to the different size bolts. The revolving feature is of the simplest possible construction and always works easily. The labels are easily changed by removing them from holders and inserting others. It is neat in appearance and substantial made. It will last as long as you need a Bolt Case.

Note—Not Carried in Stock. Sold for Direct Factory Shipment Only

BICYCLE SADDLES

TROXEL EAGLE BRAND

Each

Eagle Monarch—Stamped Steel Frame and Trusses, Cushion Springs Combined with Universal Spring, all Finished in Black Enamel, English Russet Leather Top; Standard Saddle Clamp, Length of Seat 10¾ inches, Length Over All 12 inches Width 8¾ inches, Weight 3½ lbs. $4.40

Each

Eagle Diamond Stamped Steel Frame and Trusses, Cushion Springs Combined with Universal Spring, all Finished in Black Enamel, English Russet Leather Top, Length of Seat 10¾ inches, Length Over All 12 inches, Width 7¾ inches, Weight 3½ lbs. $3.85

Each

Eagle Eazy—Stamped Steel Frame and Trusses; Cushion Springs Combined with the Universal Coil Spring, all Finished in Black Enamel, English Russet Leather Top, the Universal Clamp on this Saddle prevents its Turning or Twisting; Suitable for Heavy Riders and Hard Usage on Rough Road. Length of Seat 11 inches; Length Over all 12 inches; Width 8½ inches, Weight 4 lbs. $8.50

Each

Empire Stamped Steel Base, Tight Wire Trusses; New Universal Clamp, Rear Springs and Double Coil Nose Spring in Front, all Finished in Black Enamel, English Russet Leather Top, Length of Seat 10¾ inches, Length Over All 11¾ inches Width 8¼ inches, Weight 2½ lbs. $4.20

Each

Roadster Stamped Steel Base, Single Wire Trusses, Two Rear Spiral Springs and Nose Coil in Front, all Finished in Black Enamel, English Russet Leather Top, Length of Seat 10¾ inches, Length Over All 11¾ inches, Width 7¾ inches, Weight 3 lbs. $3.30

FOR MOTORCYCLES AND BICYCLES

Each

Climax Stamped Steel Frame and Trusses, Cushion Springs Combined with the Universal Spring all Finished in Black Enamel, English Russet Leather Top, The Universal Clamp on this Saddle Prevents its Turning or Twisting. It is Especially Suitable for Heavy Riders and Hard Usage on Rough Roads. Length of Seat 12½ inches, Length Over All 13½ inches, Width 9 inches; Weight 4½ lbs. $7.15

MOTORCYCLE SADDLES

TROXEL EAGLE BRAND

Each

Eagle Motor 3—Stamped Steel Frame Trusses; Black Enameled; Finest Oak Tanned Leather; Equipped with New Spring Action and Without Nose Coil, Giving a Low Saddle Position; the Universal Clamp Used on this Saddle Prevents its Twisting or Turning. Length 15½ inches; Width 13½ inches; Weight 3¾ lbs. $14.85

Each

Eagle Motor 2—Stamped Steel Frame and Trusses, Black Enamel; Finest Oak Tanned Leather Saddle is Supplied with No-Bump Spring Action and Without Nose Coil, Giving a Low Saddle Position; the Universal Clamp on this Saddle Prevents its Twisting or Turning, Length 14½ inches; Width 12½ inches, Weight 3½ lbs. $11.00

Each

Motor No. 1—Stamped Steel Frame and Trusses, Cushion Springs Combined with the Universal Spring, all Finished in Black Enamel, English Russet Leather Top, Carefully Selected. The Universal Clamp Used on this Saddle Avoids any Possibility of its Twisting or Turning on the Post; the Design Places the Rider in the Lowest Possible Position on the Motor Cycle; Length of Seat 13½ inches; Length Over All 14½ inches; Weight 5¾ lbs. $10.50

BICYCLE SADDLE SPRINGS

TROXEL PERFECTION
For Wood Base Saddles
Adjustable to different length Saddles; Hinge Fastenings at Rear

Per Dozen

No. TP—Heavy Tempered Steel Spring Wire, Nickel Plated; Two Cushion Springs in Rear; One Front Coil Spring; Length 10½ in. Over All. Wt. per Doz 24 lbs. $11 00

Per Dozen

No TP8—Heavy Tempered Steel Spring Wire; Nickel Plated; Two Cushion Springs in Rear; One Front Coil Spring; has the new Nose Coil which strengthens the Saddle Tree and Flattened Eyes so that it is adjustable to any Wood Base Saddle without using longer Bolts; Length over all 10½ inches, Weight per Dozen 30 lbs $11.90

Loose

UNIVERSAL

Per Dozen

No. USS—Two Spiral Springs in Rear, Wire Truss, Coil Spring in Front; Finished in Black Enamel; Adjustable to any Saddle; Length 10 inches. Weight per Dozen 12¾ lbs. .. $7 70

Per Dozen

No. USS2—Two Spiral Springs in Rear, Wire Truss, Coil Spring in Front; Finished in Black Enamel, has the new Nose Coil which strengthens the Saddle Tree, and eyes Flattened so that it is adjustable to any Wood Base Saddle without using longer Bolts; Length over all 10 inches; Weight per Dozen 15 lbs.. $9.85

Twelfth Dozen in a Box

SIMPLEX

Each

No. S—Double Spring with Flat End to Fit Under Clamp to Increase Height, Nickel Plated, Length Over All 7 inches, Weight Each ½ lb. $2.90

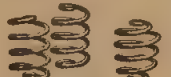
Loose

COIL SPRING

Per Dozen

No. S—Coil Springs with Loop; Made for Gents' and Ladies' Saddle, Nickel Plated and Polished; Length Over All 7⅛ inches; Weight per Dozen 3 lbs.. $2.50

Loose



OLESON

Per Set

No. 4—Three Spiral Springs, Nickel Plated with Bolts and Washers Only, Adjustable to Any Wood Base Saddle; Length 8¼ inches Weight per Dozen 6½ lbs.. $1 90

Loose

MOTOR CYCLE SADDLE CLAMPS

TROXEL UNIVERSAL

Each

No TM—Drop Forged Steel Clamp, Black Japanned, Polished Washers and Nuts, Adjustable to any Position; Weight Each ½ lb. $1 50

Loose

BICYCLE SADDLE CLAMPS

STANDARD

Per Dozen

No. 70—Full Nickel Plated; Fits All Bicycle Seat Posts; this is the Clamp Used on Most Saddles; Wt. per Dozen 2¾ lbs. $2.75

Loose

CHALFANT DIRECT

Each

No. CD—Full Nickel Plated; for 1 inch Tubing; Bolts Directly on Frame, No Seat Post Required; Used Principally for Shortening the Reach, Can Only be Used in Connection with Round Spring Saddles; Weight Each 4 ozs.... $0 70

One in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

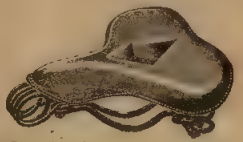
BICYCLE SADDLES

*RUGBY

Our Rugby Saddles Are Unequalled. They Have Proven Their Durability and Their Popularity to the Satisfaction of Both Dealers and Riders. They Combine the Best of Material Obtainable Russet Leather Cover, Hair Felt Padding, Wooden Base, Best of Springs of the Various Styles and Clamps.

Each

No. 052RC—Gents; Russet Leather Covered, Hair Felt Padded; High Back Wood Base Universal Springs Black Enameled, Length of Seat 10¼ inches, Length Over All 10¼ inches, Width 8 inches; Weight 2¼ lbs **$2.65**

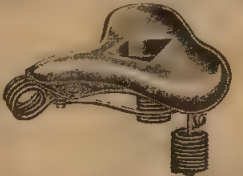


Each

No. 041RC—Gents; Russet Leather Covered, Hair Felt Padded, Low Back Wood Base, Universal Springs Highly Nickel Plated, Length of Seat 9¾ inches, Length Over All 9¾ inches; Width 8 inches; Weight 2¼ lbs **$2.20**

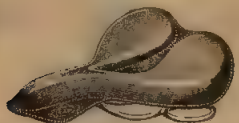
Each

No 052RP—Gents; Russet Leather Covered, Hair Felt Padded; High Back Wood Base Tread Pattern Springs Black Japanned, Length of Seat 10¼ inches, Length Over all 10¾ inches; Width 8 inches; Weight 2½ lbs . **$3.00**



Each

No. 041RP—Gents; Russet Leather Covered; Hair Felt Padded; Low Back Wood Base Tread Pattern Springs Black Japanned, Length of Seat 9¾ inches; Length Over all 9¾ inches, Width 8 inches, Weight 2½ lbs **$2.75**



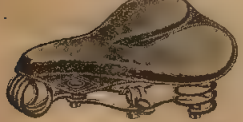
Each

No. 52RC—Gents; Russet Leather Covered, Hair Felt Padded; High Back Wood Base Coil Spring Highly Nickel Plated; Length 10¾ inches; Width 8 in ; Wt 1¾ lbs **$3.00**

Each

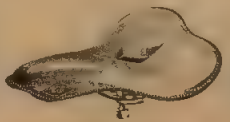
No. 40R—Gents; Russet Leather Covered; Hair Felt Padded; Low Back Wood Base; Truss Spring Nickel Plated; Length 9¾ inches; Width 8 inches; Weight 1¾ lbs . . **$1.70**

"ORIGINATED BY US"



Each

No. 11RC—Gents, Russet Leather Covered, Soft Padding; Universal Springs, Nickel Plated; Length 10¾ inches; Length over all 10¾ inches; Width 8 inches; Weight 2¼ lbs.. ..... **$1.80**



Each

No. 10R—Gents, Nickel Plated Truss Spring, Russet Leather Cover; Wood Base; Length 9¾ inches; Width 7½ inches, Weight 1¾ lbs **$1.35**

One in a Box

Each

No. 07RC—Ladies, Nickel Plated Coil Spring; Russet Leather Cover, Wood Base; Length 8 inches, Width 8¼ inches; Weight 1¾ lbs **$2.00**

"DIAMOND EDGE IS A QUALITY PLEDGE"

"WAGNER" POLISHED HOLLOW WARE

Extra High Grade Smooth Castings, Free from Paint, Sand Holes and Gate Marks

FLAT BOTTOM KETTLES

Polished

Nos.	7	8	9
Quarts	6	7	9
Wt Per Dozen, Lbs	84	93	117
Each	$0.94	1.04	1.32
	1 50	1 70	2 00

LOW BULGED POTS

Polished

No.	8
Quarts	7
Weight Per Dozen, Lbs	99
Each	$1 16
	1.80

SCOTCH BOWLS

Polished

Nos.	2	3	4
Quarts	3	4	5
Wt Per Dozen, Lbs.	45	61	77
Each	$1 30	1 50	1 70

DUTCH OVENS

Polished, with Bail

Nos.	8	9	10
Quarts	5	6	8
Wt. Per Dozen, Lbs	108	142	162
Each	$1 40	1 60	1 90
	2 20	2 50	3 20

SHALLOW SKILLETS

Polished

Nos.	7	8
Diameter Bottom, Inches	7	8⅜
Weight Per Dozen, Lbs	24	31
Each	$0.42	.48
	.60	80

REGULAR SKILLETS

Polished

Nos.	7	8	9	12
Diam Bottom, Inches.	8¼	8⅞	9⅜	11¾
Wt Per Dozen, Lbs.	42	48	53	78
Each	$0 46	50	58	1 10
	70	80	90	1 90

"WAGNER" POLISHED HOLLOW WARE

Extra High Grade Smooth Castings, Free from Paint, Sand Holes and Gate Marks

HANDLED GRIDDLES

Polished

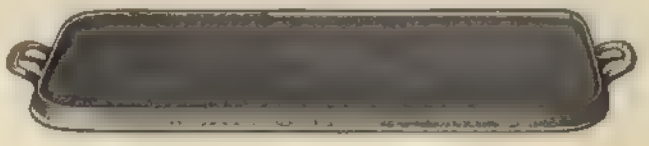
Nos.	8	9
Diameter Bottom, Inches	9¾	10¾
Weight Per Dozen, Lbs.	42	46
Each	$0.40	45
	.70	80

BAILED GRIDDLES

Polished, Raised Bottom

No.	16
Diameter Bottom, Inches	15⅞
Weight Per Dozen, Lbs	105
Each	$1.10
	1.70

LONG GRIDDLES



Plain Smooth Casting

Nos.	8	9	11
Inches	8⅞x19⅞	10⅛x21½	13½x25
Weight Per Dozen, Lbs.	69	136	228
Each	$0.72	.90	2.00
	1.20	1.50	3.00

GEM PANS

Polished, Plain Smooth Castings

Per Dozen

Style B—Deep Corn Cake 11 Pans, 2¾ in Deep $5.00

8.40

Weight Per Dozen 64 Pounds

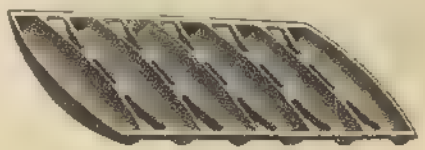
Polished, Plain Smooth Castings

Per Dozen

Style E—For Bread Sticks, 11 Pans..... $5.00

8.40

Weight Per Dozen 45 Pounds



Polished, Plain Smooth Castings

Per Dozen

Style I—For Vienna Rolls, 6 Pans..... $4.00

7.20

Weight Per Dozen 40 Pounds

HUEY & PHILP HARDWARE COMPANY.

CAST HOLLOW WARE

ROUND BOTTOM KETTLES

Unground

Nos.	7	8	9
Weight Each, Lbs.	6¾	8	10
Each	$0.65	.70	.85
Per Dozen	9.00	10.00	12.00

ROUND BOTTOM POTS

Unground

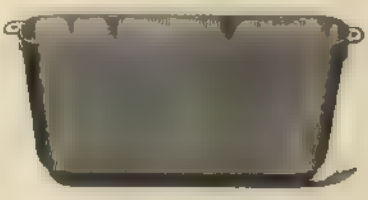
Nos.	7	8	9
Weight Each, Lbs.	8	9½	10¾
Each	$ 0.75	.85	1.00
Per Dozen	10.00	12.00	14.00

TEA KETTLES

Unground

Nos.	7	8	9
Weight Each, Lbs.	8	9	11
Each	$0 80	.90	1.00
Per Dozen	9 60	11.00	12 50

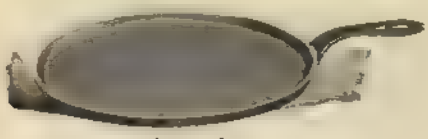
HAM BOILERS



Unground

Nos.	7	8	9
Weight Each, Lbs.	19½	23½	28
Each	$1.90	2.25	2.50
	2.00	2.40	2.70

HANDLED GRIDDLES



Ground

Nos.	7	8	9
Weight Each, Lbs.	2¼	3¼	3¾
Each	$0.25	.27	.30
Per Dozen	3.30	3 60	4.00

SPIDERS

Ground

Nos.	7	8	9
Weight Each, Lbs.	3¼	3¾	4¾
Each	$0.30	.35	.40
Per Dozen	4.00	4.80	5.50

COUNTRY SPIDERS

Deep, with Lid

Inches	9	10	11	12	13	14
Weight Each, Lbs.	4½	5½	7½	9¼	10	12½
Per Pound	$0.08	.08	.08	.08	.08	.08

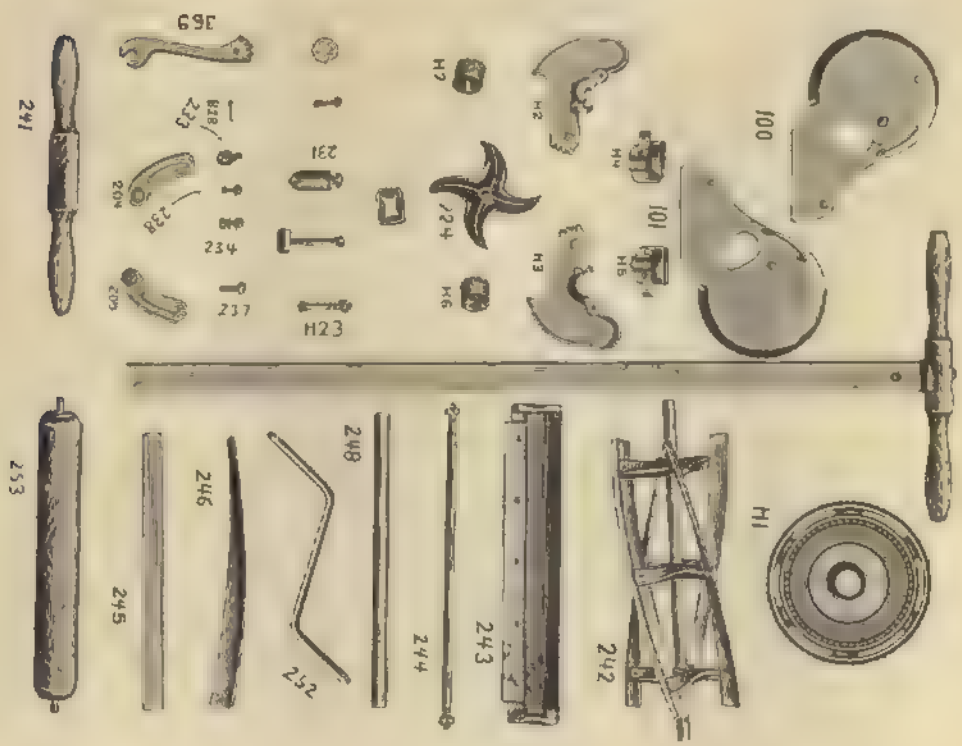
COUNTRY OVENS

Deep, with Lid

Inches	10	11	12	13	14
Weight Each, Lbs.	5½	7	9¾	12	12½
Per Pound	$0.08	.08	.08	.08	.08

LAWN MOWER PARTS

BUCKEYE SPECIAL, PLAIN BEARING



Four Knives, 12 and 14 in.

		Each
No.	H1—Drive Wheel	$1.25
No.	H2—R. H. Cylinder Hanger	.60
No.	H3—L. H. Cylinder Hanger	.60
No.	204—L. H. Roller Hanger	.15
No.	205—R. H. Roller Hanger	.15
No.	H4—R. H. Box Cap	.25
No.	H5—L. H. Box Cap	.25
No.	224—Cylinder Head	.50
No.	221—Spindle	.50
No.	H6—R. H. Pinion and Clutch	.35
No.	H7—L. H. Pinion and Clutch	.35
No.	360—Wrench	.25
No.	101—L. H. Steel Side Plate	1.00
No.	100—R. H. Steel Side Plate	1.00
	Wrought Wheel Washer, Square Hole	.01
No.	231—Spindle Bolt	.05
No.	233—Adjustment Bolt	.05
No.	234—Roller Hanger Bolts, Each,	.05
No.	237—Cylinder Shaft Cap Screw	.05
No.	238—Knife Bolt	.05
No.	B28—Steel Pin for Clutch	.05
No.	241—Handle Grip	.25
	Handle Complete	.75
No.	H23—Handle and Hound Bolt	.05
No.	F18—Handle Socket	.25

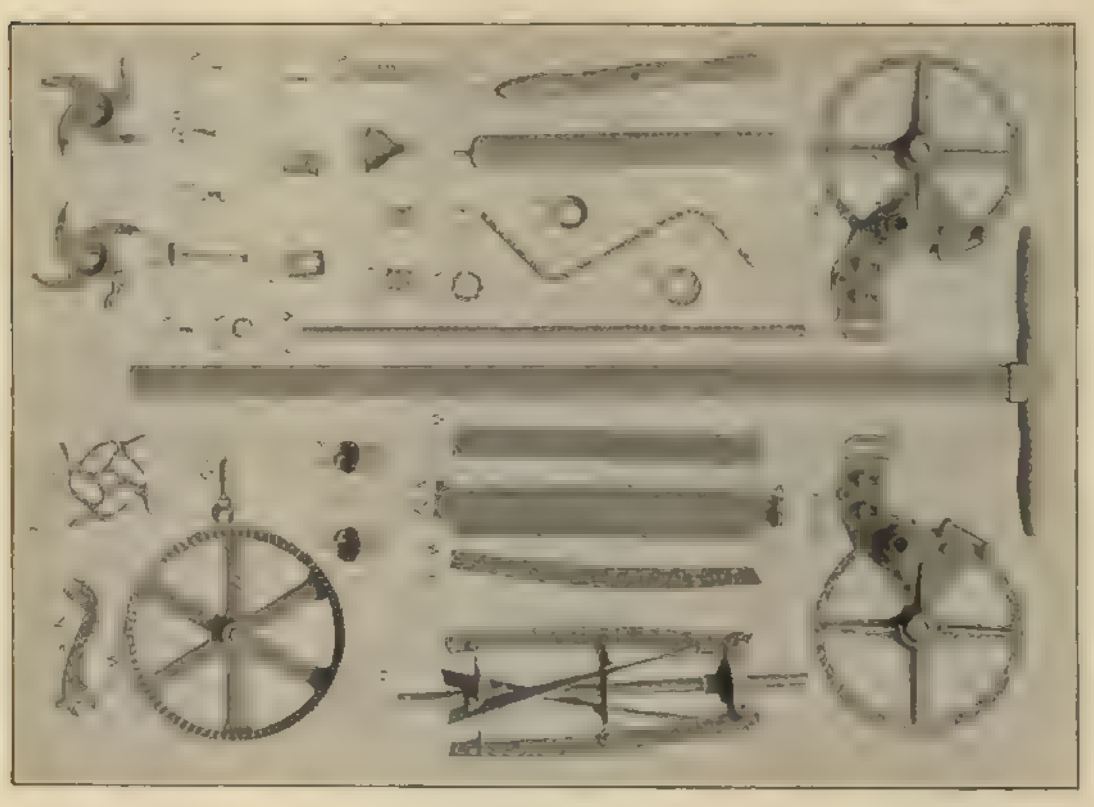
			Each
No.	E19—Bolt and Pin for Handle		$0.15
No.	242—Cylinder, Complete—		
	Inches	12	14
	Each	$2 50	3 00
No.	243—Knife, Complete		
	Inches	12	14
	Each	$1 20	1 40
No.	244—⅜ in. Iron Rod		
	Inches	12	14
	Each	$0 15	20
No.	245—Steel Part of No 242		
	Inches	12	14
	Each	$0 60	70
No.	246—Spiral Blade for No 242		
	Inches	12	14
	Each	$0 40	45
No.	248—Pipe Brace—		
	Inches	12	14
	Each	$0 25	30
No.	252—Handle Hounds		
	Inches	12	14
	Each	$0 25	30
No.	253—Wood Roller—		
	Inches	12	14
	Each	$0 45	50

Note—When Ordering Always Give Number with Description of Part, Also Width of Cut and Name of Machine. Also Give Year Machine was Manufactured as it Appears on Cutter Bar

HUEY & PHILP HARDWARE COMPANY.

LAWN MOWER PARTS

GOLD MEDAL, BALL BEARING



Four Knives, 14, 16 and 18 in.

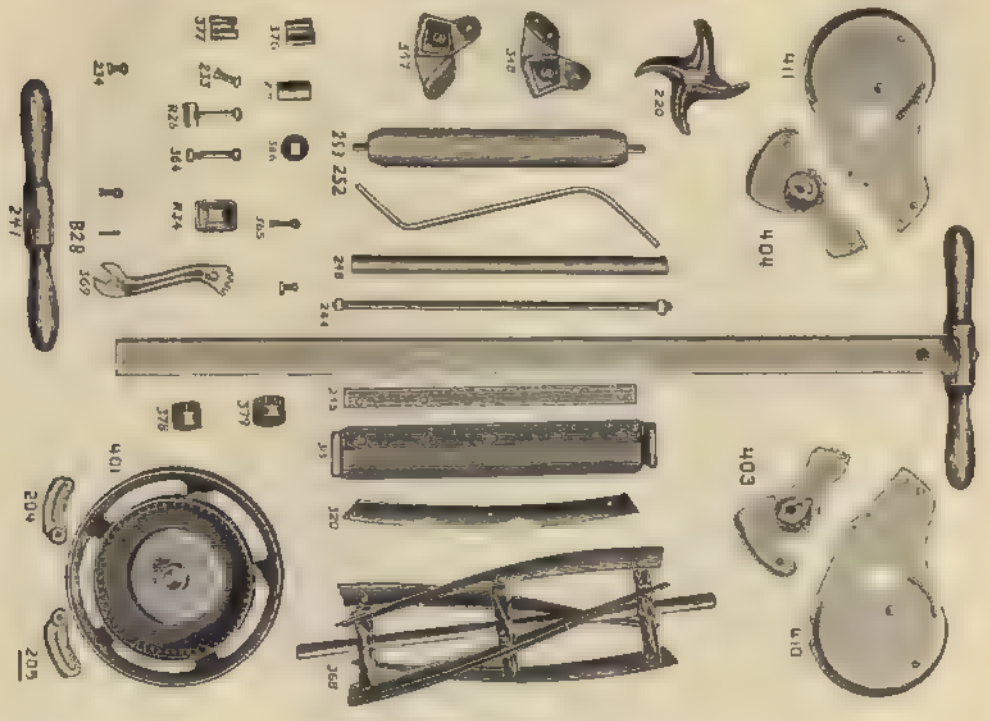
		Each
No. W51	Drive Wheel	$1 50
No. W52	R. H. Side Plate	1 25
No. W53	L. H. Side Plate	1 25
No. P6	R. H. Pinion and Clutch	35
No. P7	L. H. Pinion and Clutch	35
No. B8	R. H. Cylinder Head	60
No. B9	L. H. Cylinder Head	60
No. B10	Center Cylinder Head	50
No. W61	Pinion Cover	25
No. W63	Roller Hanger	25
No. W16	Ball Cup	20
No. W17	Cap for Ball Cup	10
No. W19	Ball Retainer	10
	10 Balls	05
No. W21	x ½ in. Set Screw	07
	Bolt for Handle Hounds	07
	Handle Complete	75
No. B34	Handle Socket	25
No. 123	Handle Saddle	10
No. W26	Bolt and Pin for Handle	15
No. 241	Handle Grip	25
No. W27	Adjustable Cone	40
No. W32	Stationary Cone	25
No. W28	Ratchet Pin for Nos. P6 and P7	05
No. W29	Cast Washer	05
No. W30	Roller Hanger Bolt	05

		Each
No. W25	Bolt for Cutter Bar	05
No. W27	Screw to Adjust Cutter Bar	05
No. W31	Screw for Pinion Cover	05
No. N15	Wrench	15
No. B5	Wrench for Set Screw and Cone	10
No. 43	Cylinder, Complete, Four Knives—	
	Inches 14 16 18	
	Each $4.00 4.50 5 00	
No. W36	Steel Spiral Blade for Cylinder—	
	Inches 14 16 18	
	Each $0.75 .90 1 00	
No. W37	Lower Knife, Complete—	
	Inches 14 16 18	
	Each $1.10 1 50 1 80	
No. W38	Steel Blade, for Lower Knife—	
	Inches 14 16 18	
	Each $1 70 80 90	
No. W39	⅝ in. Steel Shaft—	
	Inches 14 16 18	
	Each $0 40 50 60	
No. W40	Handle Hounds	
	Inches 14 16 18	
	Each $0 30 35 40	
No. W41	Wood Roller—	
	Inches 14 16 18	
	Each $0 50 55 60	

Note.—When Ordering, Always Give Number with Description of Part, Size Width of Cut and Name of Machine. Also Give Year Machine was Manufactured as it Appears on Cutter Bar

LAWN MOWER PARTS

BUCKEYE HIGH WHEEL, PLAIN BEARING



Four Knives, 14 and 16 in.

		Each
No. 411	—R. H. Steel Side Plate, 1906 & Later..	$1.25
No. 410	—L. H. Steel Side Plate, 1906 & Later..	1.25
No. 337	—Combination Driving Wheel and Internal Gear, 1901	1.60
No. 344	—Combination Driving Wheel and Internal Gear, 1902 to 1904	1.50
No. 373	—Combination Driving Wheel and Internal Gear, 1905	1.50
No. 401	—Combination Driving Wheel and Internal Gear, 1906 and Later	1.50
No. 316xx	R. H. Cylinder Hanger, 1901	.75
No. 315xx	L. H. Cylinder Hanger, 1901	.75
No. 346	R. H. Cylinder Hanger, 1902 to 1904	.75
No. 345	L. H. Cylinder Hanger, 1902 to 1904	.75
No. 374	R. H. Cylinder Hanger, 1905	.75
No. 375	L. H. Cylinder Hanger, 1905	.75
No. 404	R. H. Cylinder Hanger, 1906 & Later	.75
No. 405	L. H. Cylinder Hanger, 1906 & Later	.75
No. 338	R. H. Handle Connec'n, 1901 & 1902	.50
No. 339	L. H. Handle Connec'n, 1901 & 1902	.50
No. 348	R. H. Handle Connec'n, 1903 & Later	.50
No. 347	—L. H. Handle Connec'n, 1903 & Later	.50
No. 220	—Cylinder Head	.50
No. 205	—R. H. Roller Hanger	.25
No. 204	—L. H. Roller Hanger	.25
No. 110	—Cylinder Pinion for 1901 to 1904	.25
No. 108	—R. H. Clutch for 1901 to 1904	.20
No. 109	—L. H. Clutch for 1901 to 1904	.20
No. 116	—Pawl for 1901 to 1904	.05
No. 378	—R. H. Clutch & Pinion, 1905 & Later	.35
No. 379	—L. H. Clutch & Pinion, 1905 & Later	.35
	Pin for Clutch for 1905 Mower	.05
No. 226	—Wrench, 1901 and 1902	.20
No. 309	Wrench, 1903 and Later	.20
No. 370	—⅜ in. Rod for Grinding	.05
	Handle Complete	.75
No. 826	—Handle Bolt and Pin for 1905 Mower	.15
No. 834	—Handle Socket for 1905 Mower	.25
No. 241	—Handle Grip	.25
No. 367	—Round End Screw to Adjust Shaft Cap	.04

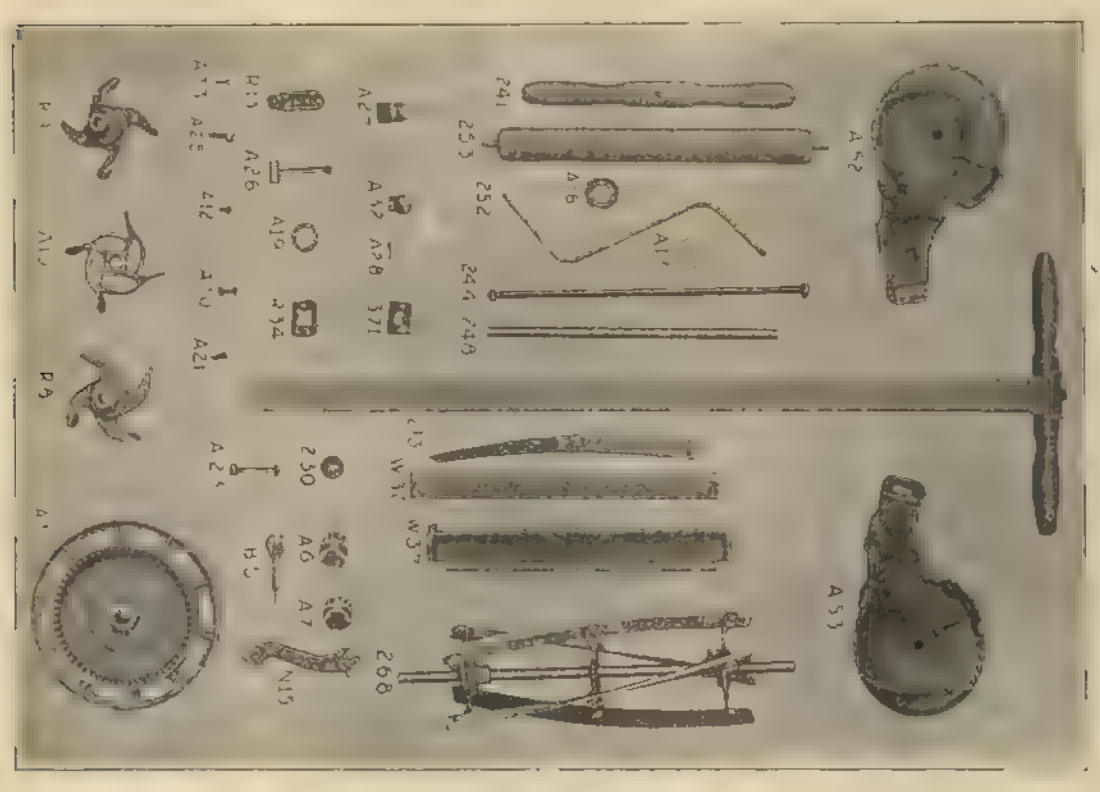
		Each
No. 342	—R. H. Shaft Cap for 1901 to 1904.	$0.15
No. 343	—L. H. Shaft Cap for 1901 to 1904..	.15
No. 376	—R. H. Shaft Cap for 1905 Mowers...	.15
No. 377	—L. H. Shaft Cap for 1905 Mowers	.15
No. 405	—R. H. Shaft Cap for 1906 and Later.	.15
No. 406	—L. H. Shaft Cap for 1906 and Later.	.15
No. 238	—Knife Bolt	.05
No. 234	—Roller Hanger Bolt	.05
No. 233	—Adjustment Bolt	.05
No. 304	—Spindle Bolt	.10
No. 224	—Wheel Spindle, 1⅝ in. Long	.50
No. 365	—Split Key to Hold Wheel on	.02
No. 366	—Wheel Washer, Square Hole	.01
No. 363	—Washer for Roller Hanger	.01
No. 40	—Handle and Round Bolt	.05
No. 368	—Cylinder Complete, 4 Knives,	
	Inches	14 16
	Each	$4.00 4.50
No. 313	—Knife Complete—	
	Inches	14 16
	Each	$1.50 1.75
No. 323	—Steel Spiral Blade for No. 368	
	Inches	14 16
	Each	$0.75 .90
No. 244	—⅝ in. Iron Brace Rod—	
	Inches	14 16
	Each	$0.20 .25
No. 245	—Steel Part of No. 310	
	Inches	14 16
	Each	$0.75 .90
No. 248	—Pipe Brace	
	Inches	14 16
	Each	$0.30 .35
No. 252	—Handle Bar	
	Inches	14 16
	Each	$0.30 .35
No. 253	—Wood Roller—	
	Inches	14 16
	Each	$0.50 .55

Note—When Ordering Always Give Number with Description of Part, Also Width of Cut and Name of Machine. Also Give Year Machine was Manufactured as it Appears on Cutter Bar

HUEY & PHILP HARDWARE COMPANY.

LAWN MOWER PARTS

BUCKEYE STANDARD, BALL BEARING



Four Knives, 14 and 16 in.

	Each
No. A1—Drive Wheel	$1 50
No. A52—R. H. Side Plate, 1914	1 25
No. A53—L. H. Side Plate, 1914	1 25
No. A6—R. H. Pinion and Clutch	35
No. A7—L. H. Pinion and Clutch	35
No. R8—R. H. Cylinder Head	.60
No. R9—L. H. Cylinder Head	.60
No. A10—Center Cylinder Head	50
No. R13—Roller Hanger	.15
No. A16—Ball Cup	.20
No. A17—Cap for Ball Cup	10
No. A19—Ball Retainer	10
⅜ in. Balls	05
No. A21—⅜x⅛ in. Set Screw	05
No. A23—Bolt for Handle Hounds	05
No. 241—Handle Grip	25
Handle Complete	75
No. R34—Handle Socket	25
No. 371—Handle Saddle	10
No. A27—Adjustable Cone	.40
No. A32—Stationary Cone	25
No. A28—Ratchet Pin for Nos. A6 and A7	05
No. A26—Bolt and Pin for Handle	15
No. A33—Cotter Pin	05
No. A25—Bolt for Cutter Bar	05
No. A30—Roller Hanger Bolt	05
No. A12—Screw to Adjust Cutter Bar	05

	Each
No. 230—Wheel Washer	$0 05
No. B5—Wrench for Set Screw and Cone	.15
No. N13—Wrench	.15
No. 208—Cylinder Complete, Four Knives—	
Inches	14 16
Each	$4.00 4.50
No. 218—Spiral Blade for Cylinder—	
Inches	14 16
Each	$0 75 .90
No. W37—Lower Knife Complete	
Inches	14 16
Each	$1.50 1.75
No. W38—Steel Blade, for Lower Knife—	
Inches	14 16
Each	$0 75 .90
No. 244—⅝ in. Steel Brace Rod—	
Inches	14 16
Each	$0 20 .25
No. 248—Pipe Brace—	
Inches	14 16
Each	$0 30 .35
No. 252—Handle Hounds—	
Inches	14 16
Each	$0 30 .35
No. 253—Wood Roller—	
Inches	14 16
Each	$0 70 .55

Note—When Ordering, Always Give Number with Description of Part, Also Width of Cut and Name of Machine, Also Give Year Machine was Manufactured as it Appears on Cutter Bar

FISHING RODS.

DOWAGIAC BAIT CASTING.

Split Bamboo Tip; Wood Butt, Nickel Plated Shouldered and Welted Double Ferrules; Large Wire Casting Guides, "File-proof" Offset Casting Top; Nickel Plated Reel Mountings, with Finger Hook; NATURAL FINISH SOLID WOOD "DOWAGIAC" PATTERN GRIP; Wrapped with Red Silk at Intervals.

No. H1½—3-PIECED BAIT CASTING; Short Butt, Long Tip Style Length 5 ft only Weight per dozen about 4½ lbs. .....Per Dozen, **$24.00**

Split Bamboo Tips, Nickel Plated Shouldered and Welted Double Ferrules, Large Wire Casting Guide, "File-proof" Offset Casting Top, Nickel Plated Reel Mountings; Finger Hook on Reel Band; "DOWAGIAC" CORK GRIP; Reel Seat Fitted with Dowagiac Patent Reel Band; Bamboo Throughout; Wrapped with Red and Green Silk at Intervals.

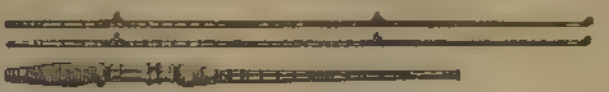
Per Dozen

No. H2½—2-PIECED BAIT CASTING; Short Butt, Long Tip Style, WITH ONE EXTRA TIP JOINT; Length 5 ft only Weight per dozen about 6½ lbs **$40.00**

Nickel Plated Mountings Throughout; Large Agate Offset Casting Guide, Casting Top, Other Top and All Guides "File-proof"; Shouldered and Welted Double Ferrules; "DOWAGIAC" SOLID CORK DOUBLE GRIP, Reel Seat fitted with "Dowagiac" Pattern Reel Band with Finger Hook; Wrapped with Red and Green Silk every 1 in.

Per Dozen

No. H4—2-PIECED FINE QUALITY SPLIT BAMBOO (Six Strips) Bait Casting Rod, Short Butt, Long Tip Style, WITH ONE EXTRA TIP JOINT; Lengths 4½, 5 and 5½ ft; Weight per dozen about 6 lbs.....**$64.00**



Nickel Plated Mountings Throughout; One Tip Joint fitted with Agate Offset Casting Top and Agate Casting First Guide, and One with Offset Casting Top and "File-proof" Steel Casting Guide, Shouldered and Welted Double Ferrules; "DOWAGIAC" SOLID CORK DOUBLE GRIP, Reel Seat fitted with "DOWAGIAC" Patent Reel Band Wrapped with Red Silk every ¾ in

No. H6—2-PIECED SELECTED SPLIT BAMBOO BAIT CASTING ROD; Short Butt, Long Tip Style, WITH ONE EXTRA TIP JOINT; Lengths 4½, 5 and 5½ ft.; Weight per dozen about 4½ lbs.....Per Dozen, **$86.00**

One-twelfth Dozen in a Partitioned Cloth Bag

Nickel Plated Mountings Throughout; One Tip Joint fitted with Agate Offset Casting Top and Agate Casting First Guides, and One with Agate Offset Casting Top and "File-proof" Steel Casting Guides; Shouldered and Welted Solid German Silver Double Ferrules, Solid German Silver Reel Seat, with "DOWAGIAC" Patent Locking Reel Band, SOLID CORK "DOWAGIAC" PATTERN DOUBLE GRIP; Wrapped with Red and Purple Silk every 1 in.

No. H10—2-PIECED EXTRA SELECTED SPLIT BAMBOO BAIT CASTING, WITH ONE EXTRA TIP JOINT; Short Butt, Long Tip Style; Lengths 4½, 5 and 5½ ft., Weight per dozen about 4½ lbs.; Put up in a Leatherette Carrying Case with Nickel Plated Caps on Ends; Weight Complete per dozen about 24 lbs. .....Per Dozen, **$160.00**

One-twelfth Dozen in a Leatherette Carrying Case

FISHING RODS.

SPLIT BAMBOO FLY.

No. 205F.

Nickel Plated Shouldered Double Ferrules, Drop Ring Guides, One Ring Top, Nickel Plated Reel Seat Below Hand; CORK GRIP

Per Dozen

No. 200F—3-PIECED COMMON SPLIT BAMBOO (Six Strips); No Extra Tip Joint, Lengths 9½ to 10 ft...**$13.00**

No. 205F—WITH ONE EXTRA TIP JOINT, Lengths 9½, 10 and 10½ ft..... **16.00**

Weight per Dozen about 12 lbs

Nickel Plated Shouldered Double Ferrules; Snake Guides; One Ring Top; Nickel Plated Reel Seat Below Hand; CORK GRIP

No. 210F—4-PIECED COMMON SPLIT BAMBOO (Six Strips); No Extra Tip Joint; Length 9 ft.; Weight per dozen about 12 lbs.....Per Dozen, **$18.00**

One-twelfth Dozen on a Stained Wood Form, in a Cloth Bag

Nickel Plated Shouldered Double Ferrules; Snake Guides, One Ring Top; Nickel Plated Reel Seat Below Hand; CORK GRIP; Wrapped Alternately with Red and Black Silk every 3 to 4 in.

No. 215F—3-PIECED FAIR QUALITY SPLIT BAMBOO (Six Strips) WITH ONE EXTRA TIP JOINT, Mottled Finish; Lengths 9½, 10 and 10½ ft.; Weight per dozen about 12 lbs.....Per Dozen, **$24.00**

Nickel Plated Shouldered Double Ferrules, Snake Guides, One Ring Top Nickel Plated Reel Seat Below Hand, CORK GRIP

Per Dozen

No. 217F—3-PIECED MEDIUM QUALITY SPLIT BAMBOO (Six Strips) WITH ONE EXTRA TIP JOINT; Heavy Wrapped, Alternately, with Orange and Green Silk Cluster, every 2½ in.; Length 9, 9½ and 10 ft Weight per dozen about 10½ lbs.....**$33.00**

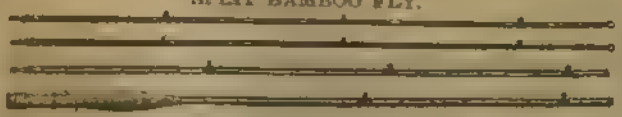
Nickel Plated Shouldered Double Ferrules; One Ring Top; Nickel Plated Reel Seat Below Hand; CORK GRIP Wrapped Alternately with Green and Red Silk every 1½ in.

No. 220F—3-PIECED FAIR QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Snake Guides; Lengths 9½ and 10 ft.; Weight per dozen about 12 lbs.....Per Dozen, **$30.00**

One-twelfth Dozen on a Flannel Covered Wood Form, in a Cloth Bag

FISHING RODS.

SPLIT BAMBOO FLY.



Nickel Plated Shouldered and Welted Double Ferrules, One Ring Tops; Nickel Plated Reel Seat Below Hand, CORK GRIP, Wrapped Alternately with Red and Black Silk every 1½ in.

Per Dozen

No. 225F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Snake Guides; Lengths 9, 9½ and 10 ft.; Weight per dozen about 11 lbs. $38.00

One-twelfth Dozen on a Flannel Covered Wood Form, in a Cloth Bag

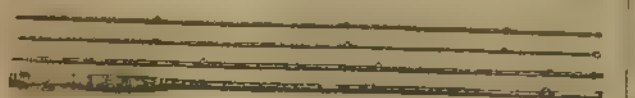
Nickel Plated Shouldered and Welted Double Ferrules, One Ring Top, Nickel Plated Reel Seat Below Hand, CANE WOUND GRIP; Fancy Wrapped with Red and Purple Silk every 1 to 2 in.

No. 230F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, SNAKE GUIDES; Lengths 9½ and 10 ft.; Weight per Dozen about 12 lbs. .....Per Dozen, $48.00

One-twelfth Dozen on a Flannel Covered Wood Form, in a Cloth Bag.

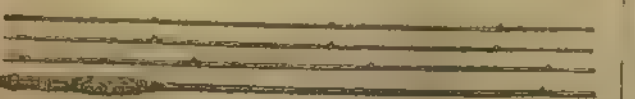
Nickel Plated Shouldered and Welted Double Ferrules, One Ring Top; Nickel Plated Reel Seat Below Hand, CORK GRIP.

No. 234F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; German Silver Snake Guides; Wrapped Alternately with Red and Black Silk at close intervals; Lengths 9, 9½ and 10 ft.; Weight per Dozen about 10 lbs. Per Dozen, $66.00

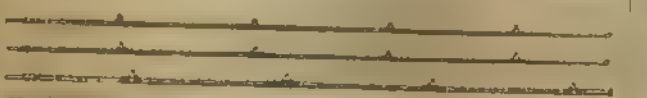


Nickel Plated Shouldered and Welted Double Ferrules German Silver Snake Guides, One Ring Tops.

No. 235F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Swelled Butt, Inlaid with Cedar; Nickel Plated Reel Seat Below Hand; CORK GRIP; Wrapped Alternately with Green and Purple Silk every 1½ in.; Lengths 9, 9½ and 10 ft.; Weight per Dozen 12 lbs. Per Dozen, $66.00



No. 236F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, Nickel Plated Reel Seat Below Hand, CORK GRIP, Wrapped Alternately with Purple and Orange Silk every 2 in., Lengths 9½ and 10 ft.; Weight per Dozen about 12 lbs. .....Per Dozen, $66.00



Per Dozen

No. 237F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Cedar Reel Seat Below Hand; CORK GRIP; Wrapped Alternately with Green and Orange Silk every 1½ to 2 in. Length 8½ ft.; Weight per dozen about 8½ lbs., THIS IS AN EXTRA LIGHT WEIGHT ROD. $72.00

One-twelfth Dozen on a Velvet Covered Wood Form, in a Cloth Bag.

FISHING RODS.

SPLIT BAMBOO FLY.

No. 245F—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; SWELLED BUTT, INLAID WITH CEDAR; Nickel Plated Reel Seat Below Hand; CORK GRIP; Wrapped Alternately with Green and Red Silk every 1½ in. Lengths 9½ and 10 ft., Weight per Dozen about 6¾ lbs. .....Per Dozen, $84.00

Nickel Plated Welted Ferrules; One Ring Tops; Nickel Plated Reel Seat Below Hand; CORK GRIP.

Per Dozen

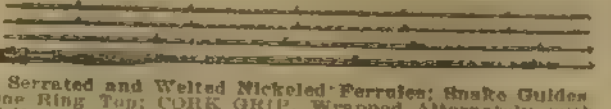
No. 240F—3-PIECED GOOD QUALITY ROUND SPLIT BAMBOO (Six Sections Vd), WITH ONE EXTRA TIP JOINT; German Silver Snake Guides; Fancy Wrappings of Purple and Orange Silk at very close intervals; Lengths 9, 9½ and 10 ft.; Weight per dozen about 9 lbs. $84.00

Nickel Plated Welted Double Ferrules; One Ring Tops Nickel Plated Reel Seat Below Hand, CORK GRIP

No. 250F—3-PIECED FINE QUALITY ROUND SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Snake Guides; Fancy Wrappings of Red and Black Silk at Very Close Intervals; Lengths 9, 9½ and 10 ft. Weight per dozen 4¼ lbs. Per Dozen, $114.00

Nickel Plated Welted Ferrules; Turn Down Tops, Polished Aluminum Reel Seat below Hand; CORK GRIP; Wrapped Alternately with Black and Red Silk every ⅛ in.

No. 253F—3-PIECED SELECTED SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, Fancy Mottled Finish; SWELLED BUTT; Snake Guides; Length 9 ft.; Weight per dozen about 2½ lbs.; THIS IS AN EXTRA LIGHT WEIGHT ROD. .....Per Dozen, $120.00



Serrated and Welted Nickeled Ferrules; Snake Guides One Ring Top; CORK GRIP, Wrapped Alternately with Yellow and Red Silk every ⅛ in.

Per Dozen

No. 258F—SIMMONS "AFRICAN STEEL CANE" 3-PIECED FINE QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Lengths 9½ and 10 ft., Weight per Dozen about 4½ lbs. $132.00

German Silver Welted Ferrules; German Silver Turn Down Tops, Solid German Silver Reel Seat below Hand; CANE WRAPPED GRIP, Fancy Wrappings of Black, Red and Orange Silk every inch.

No. 265F—3-PIECED EXTRA SELECTED SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, SWELLED BUTT; German Silver Snake Guides; Lengths 8, 9½ and 10 ft.; Weight per dozen about 4½ lbs. .....Per Dozen, $168.00

One-twelfth Dozen on a Velvet Covered Wood Form, in a Cloth Bag.

FISHING RODS.

SPLIT BAMBOO FLY.

German Silver Welted Ferrules, Turn Down Tops; Solid German Silver Reel Seat below Hand; SOLID CORK GRIP, Fancy Wrappings of Red and Yellow Silk every ½ to 1 in.

No. 270F—3-PIECED EXTRA SELECTED SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT SWELLED BUTT, Snake Guides; Lengths 9½ and 10 ft. Weight per dozen about 4½ lbs. Per Dozen, **$205.00**

One-twelfth Dozen on a Velvet Covered Wood Form, in a Cloth Bag.

German Silver Welted Ferrules; German Silver Turn Down Tops; Solid German Silver Reel Seat below Hand CORK GRIP; Wrapped with Red Silk every inch.

No. 275F—"VIDMAR," 3-PIECED EXTRA SELECTED HAND MADE SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, SWELLED BUTT; German Silver Snake Guides; Bamboo Case is furnished with each Rod to Keep the Tips in and protect Them. Lengths 9, 9½ and 10 ft.; Weight per Dozen about 3½, 4¼ and 4¾ lbs. ..... Per Dozen, **$288.00**

One-twelfth Dozen in a Partition Canvas Bag.

German Silver Welted Ferrules; First Guide AGATE; Turn Down Tops, Solid German Silver Reel Seat below Hand; SOLID CORK GRIP; Wrapped with Red Silk every inch.

Per Dozen

No. 280F—"AFRICAN STEEL CANE," 3-PIECED EXTRA SELECTED SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Snake Guides; Lengths 9½ and 10 ft.; Weight per Dozen about 4½ lbs. **$324.00**

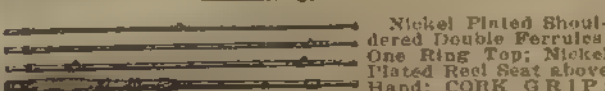
One-twelfth Dozen on a Velvet Covered Wood Form, in a Cloth Bag

Nos. 270F, 275F and 280F are strictly HAND MADE BY EXPERT WORKMEN; Only the very best quality of material is used in their construction

TRUNK AND VALISE.

Fancy Mottled Finish Nickel Plated Shouldered Double Ferrules, Tube Top, Nickel Plated Reel Seat above Hand, SCORED AND BLACK ENAMELED WOOD GRIP.

No. 160BT—4-PIECED SELECTED JAPANESE BAMBOO BAIT PATTERN; Spiral Guides; Length 8 ft.; Length of Joints 24½ in. ..... Per Dozen, **$48.00**



Nickel Plated Shouldered Double Ferrules; One Ring Top; Nickel Plated Reel Seat above Hand; CORK GRIP; Wrapped Alternately with Red and Black Silk every 2 to 3 in.

No. 215BT—4-PIECED FAIR QUALITY SPLIT BAMBOO (Six Strips), BAIT PATTERN, Spiral Guides, Length 7½ ft.; Length of Joints 23 in. ..... Per Dozen, **$20.00**

Nickel Plated Welted Double Ferrules, One Ring Tops, Nickel Plated Reel Seat below Hand, CORK GRIP, Wrapped Alternately with Red Silk at close intervals

Per Dozen

No. 230FT—3-PIECED FINE QUALITY SPLIT BAMBOO (Six Strips), FLY PATTERN, WITH ONE EXTRA TIP JOINT, Snake Guides; Length 9 ft.; Length of Joints 15 in. **$60.00**

One-twelfth Dozen in a Partition Cloth Bag; Weight per Dozen about 6 lbs.

FISHING RODS.

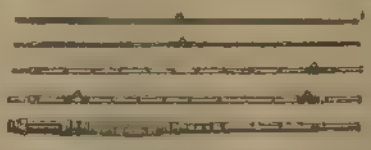
TRUNK AND VALISE.

Nickel Plated Shouldered Double Ferrules, One Ring Top, CORK GRIP, Nickel Plated Reel Seat below Hand, Wrapped Alternately with Red and Black Silk every 1½ to 3 in.

No. 215FT—4-PIECED FAIR QUALITY SPLIT BAMBOO (Six Strips), FLY PATTERN, Drop Ring Guides, Length 7½ ft., Length of Joints 23 in. Per Dozen **$20.00**

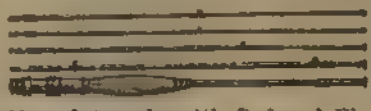
Nickel Plated Shouldered Ferrules; One Ring Tops Nickel Plated Reel Seat below Hand, CORK GRIP, Wrapped Alternately with Green and Red Silk every 1½ to 2½ in., Length 8 ft.; Length of Joints 22 in.

No. 220FT—4-PIECED MEDIUM QUALITY SPLIT BAMBOO (Six Strips), FLY PATTERN, WITH ONE EXTRA TIP JOINT; Drop Ring Guides. ..... Per Dozen, **$30.00**



Nickel Plated Shouldered and Welted Double Ferrules, One Ring Tops; Nickel Plated Reel Seat below Hand, CORK GRIP; Wrapped Alternately with Red and Green Silk every 1½ to 2½ in.

No. 222FT—4-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), FLY PATTERN, WITH ONE EXTRA TIP JOINT, German Silver Snake Guides, Length 7 ft.; Length of Joints 22 in. Per Dozen, **$43.00**



Nickel Plated Shouldered and Welted Double Ferrules; One Ring Tops Nickel Plated Reel Seat below Hand; CORK GRIP; Wrapped at Close Intervals with Red and Black Silk

No. 227FT—4-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), FLY PATTERN, WITH ONE EXTRA TIP JOINT; Drop Ring Guides, Length 7 ft.; Length of Joints 22 in. ..... Per Dozen, **$48.00**

Nickel Plated Welted Double Ferrules; One Ring Fly Tops; Nickel Plated Reel Seat below Hand; CORK GRIP, Wrapped Alternately with Red and Yellow Silk every 1¼ in

Per Dozen

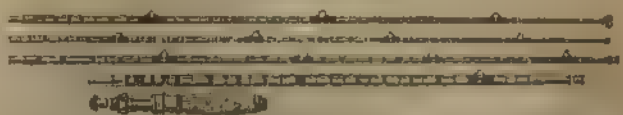
No. 225FT—FLY PATTERN; 7-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Drop Ring Guides, Length 8½ ft., Length of Joints 16 in. **$56.00**

Nickel Plated Welted Double Ferrules; One Ring Tops; Nickel Plated Reel Seat below Hand; CORK GRIP; Wrapped with Purple and Orange Silk at close intervals.

No. 235FT—6-PIECED SELECTED ROUND SPLIT BAMBOO (Six Strips), FLY PATTERN, WITH ONE EXTRA TIP JOINT, Drop Ring Guides; Length 9½ ft.; Length of Joints 20 in. ..... Per Dozen, **$90.00**

Weight per Dozen about 6 lbs.

COMBINATION



Good Quality Six Strip Split Bamboo; Nickel Plated Mountings; Welted Shouldered Ferrules; Snake Guides; Wound with Red Silk Cluster Windings at Short Intervals; Cork Grip Reversible Handle; Nickel Plated Reel Seat; When used as a Fly Rod is 9½ ft. Long and has Three Joints; When used as a Bait Rod is 6½ ft. Long and has Two Joints.

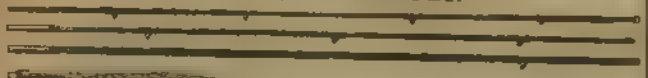
Per Dozen

No. 280/C—Weight per dozen about 5 lbs. **$96.00**

One-twelfth Dozen on a Velvet Covered Wood Form, in a Cloth Bag.

STEEL FISHING RODS.

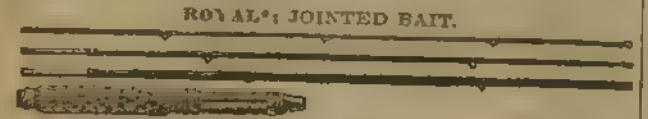
ROYAL; JOINTED FLY.



ROYAL; NICKEL CORK GRIP; Nickel Plated Reel Seat between Hand and Two German Silver Snake Guides and One-Piece Fly Tip; Enameled Delft Blue, Joints about 35 in.

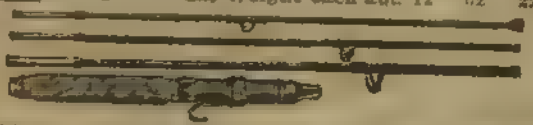
			Per Dozen
No. B9	—Length 9	ft; Wgt each abt 10½	oz...$24.00
No. B10	—Length 9½	ft. Wgt each abt 11	oz... 24.00
No. B10	—Length 10	ft Wgt each abt 12	oz... 24.00

ROYAL; JOINTED BAIT.



ROYAL; Nickel Plated Mountings, Fitted with German Silver Snake Guides and Three Ring Tips Solid Reel Seat above the Hand; SOLID CORK GRIP, Enameled Delft Blue.

			Per Dozen
No. B4	—Length 4	ft.; Weight each abt. 7	oz..$22.50
No. B46	—Length 4½	ft.; Weight each abt. 7	oz.. 22.50
No. B5	—Length 5	ft.; Weight each abt. 7	oz.. 22.50
No. B56	—Length 5½	ft.; Weight each abt. 7½	oz.. 22.50
No. B6	—Length 6	ft.; Weight each abt. 8	oz.. 22.50
No. B66	—Length 6½	ft.; Weight each abt. 9	oz.. 22.50
No. B7	—Length 7	ft.; Weight each abt. 9½	oz.. 22.50
No. B76	—Length 7½	ft.; Weight each abt. 10	oz.. 22.50
No. B8	—Length 8	ft.; Weight each abt. 10½	oz. 22.50
No. B86	—Length 8½	ft.; Weight each abt. 11	oz . 22.50
No. B9	—Length 9	ft.; Weight each abt. 11½	oz . 22.50
No. B10	—Length 10	ft.; Weight each abt. 12	oz 22.50



ROYAL; Kalamazoo Pattern; Casting Rod, SOLID CORK GRIP, Nickel Plated Reel Seat above the Hand, Extra Large Agate Tip; Finger Hook on Reel Band; Enameled Delft Blue.

EXTRA LARGE TWO-RING GERMAN SILVER GUIDES.

			Per Dozen
No. BC 4	—Length 4	ft; Wgt each abt. 7½	oz $31 00
No. BC 46	Length 4½	ft. Wgt each abt. 8	oz . 31 00
No. BC 5	Length 5	ft. Wgt each abt. 9	oz.. 31.00
No. BC 56	Length 5½	ft Wgt each abt 10	oz.. 31.00
No. BC 6	—Length 6	ft, Wgt each abt. 11	oz.. 31.00

FITTED WITH THREE RING TIP

No. BC 4R	—Length 4	ft; Wgt. each abt. 7½	oz.$31.00
No. BC 46R	Length 4½	ft Wgt each abt. 8	oz 31.00
No. BC 5R	Length 5	ft Wgt each abt. 9	oz. 31 00
No. BC 56R	Length 5½	ft Wgt each abt. 10	oz. 31 00
No. BC 6R	Length 6	ft Wgt each abt. 11	oz. 31.00

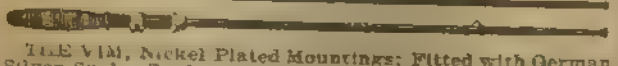
FITTED WITH LARGE AGATE FIRST GUIDE.

No. BC 4A	Length 4	ft; Wgt each abt 8	oz..$41.00
No. BC 46A	Length 4½	ft Wgt each abt 8	oz 41 00
No. BC 5A	Length 5	ft Wgt each abt 9	oz 41.00
No. BC 56A	Length 5½	ft. Wgt. each abt 10	oz. 41 00
No. BC 6A	Length 6	ft, Wgt each abt 11	oz.. 41.00

ALL AGATE GUIDES AND TIPS.

No. BC 4AA	—Length 4	ft; Wgt. each abt. 7½	oz.$57.00
No. BC 46AA	—Length 4½	ft; Wgt. each abt. 8	oz. 57.00
No. BC 5AA	—Length 5	ft; Wgt. each abt. 9	oz. 57.00
No. BC 56AA	—Length 5½	ft.; Wgt. each abt. 10	oz. 57.00
No. BC 6AA	Length 6	ft Wgt each abt 11	oz. 57.00

VIM JOINTED BAIT



THE VIM, Nickel Plated Mountings; Fitted with German Silver Snake Guides and Three Ring Tip; Rod Green Enameled; Reel Seat and Handle One Piece Black Enameled Wood, SCORED GRIP; Handle not Detachable from First Joint.

			Per Dozen
No. VB4½	—Length 4½	ft.; Wgt. each abt 5½	oz....$16.00
No. VB5	Length 5	ft, Wgt each abt 5½	oz . 16.00
No. VB5½	—Length 5½	ft.; Wgt. each abt 6	oz . 16.00
No. VB6	—Length 6	ft . Wgt each abt 6½	oz. . 16.00
No. VB6½	—Length 6½	ft Wgt each abt 7	oz. . 16.00
No. VB7	—Length 7	ft Wgt each abt 7½	oz .. 16.00
No. VB7½	—Length 7½	ft Wgt each abt 8	oz ... 16.00
No. VB8	—Length 8	ft, Wgt each abt 8½	oz .. 16.00
No. VB8½	Length 8½	ft; Wgt each abt 9	oz .. 16.00
No. VB9	Length 9	ft Wgt each abt 9½	oz 16.00

In Dozen Box with Partitioned Bag

STEEL FISHING RODS.

BRISTOL, JOINTED FLY.

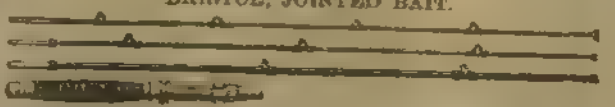
Handle Mountings Nickel Solid Reel Seat below the Hand, Two Ring German Silver Tie Guides and German Silver One Ring Fly Tip; Cork Grip.

		Per Dozen
No. 8—FLY ROD Black Enameled 10 ft. Long Joints 38 in Long, Weight each about 5½ oz.		$83.50

Handle Mountings Nickel; Solid Reel Seat below the Hand; German Silver Snake Guides and German Silver One Ring Fly Tip, Cork Grip with LOCKING REEL BAND

		Per Dozen
No. 22—LIGHT FLY ROD; Black Enameled; 8½ ft Long; Joints 33 in Long, Weight each about 5½ oz		$98.30

BRISTOL; JOINTED BAIT.



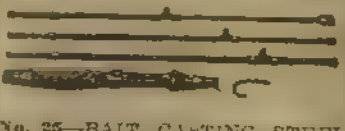
Handle Mountings Nickel Plated; Solid Reel Seat Above the Hand; Two Silver Three Ring Top; CELLULOID ROUND GRIP.

		Per Dozen
No. 11D—HENSHALL PATTERN; BLACK ENAMELED; 8 ft 6 in. Long, Joints 32 in Long, Weight each about 12 oz		$6 00 $75.60

Handle Mountings Nickel Plated Solid Reel Seat Above the Hand, Two Long German Silver Guides and German Silver Three Ring Top; CELLULOID ROUND GRIP

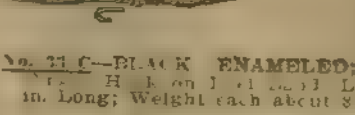
		Per Dozen
No. 15D—EXPERT BLACK ENAMELED 6 ft. 6 in Long, Joints 24 in. Long; Weight each abt 10 oz.		$6 00 75.60

BRISTOL JOINTED BAIST CASTING.



Large Agate Top, Large German Silver Offset Casting Guides, Nickel Plated Reel Seat Patent Detachable Finger Hook on Reel Band Black Enameled.

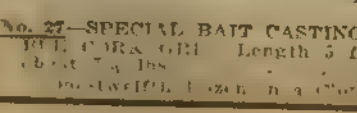
		Per Dozen
No. 25—BAIT CASTING STEEL ROD CORK GRIP Length 5 ft., Weight per dozen about 6⅝ lbs.		$8 00 105.00



Handle Mountings; Finished in French Gray on Nickel, Three Narrow Agate Guides; Special Light Offset Agate Casting Top, DOUBLE GRIP CORK HANDLE 12½ in. LONG

		Per Dozen
No. 31 C—BLACK ENAMELED; Patent Detachable Finger Hook on Reel Band Length 5 ft., Joints 17 in. Long; Weight each about 8 oz		$144 00 $151.56

BRISTOL; SPECIAL BAIT CASTING.



Large Agate Casting Guides and Large Offset Agate Casting Top, German Silver Mountings, Nickel Plated Reel Seat Patent Detachable Finger Hook on Reel Band, Black Enameled

		Per Dozen
No. 27—SPECIAL BAIT CASTING STEEL ROD, DOUBLE CORK GRIP Length 5 ft; Weight per dozen about 7 lbs		$13 90 $166 80

In Dozen Box with Partitioned Bag

ICE TOOLS.

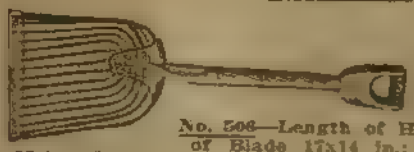
GIFFORD-WOOD CO.

PLOW ROPES.

No. 412—Length 8 ft.; Diameter 1 in.; Weight each about 6 lbs. ..$1.75 2.20

Made of the best Manila Rope, with a Thimble spliced in one end for the Whiffletree Hooks and a pair of Sister Hooks in the other end by which to fasten to the Plow

SIEVE SHOVELS.



Blade made of Steel Rods, with Steel Face and Socket, Galvanized; Plain Hardwood Handle.

No. 506—Length of Handle 40 in.; Size of Blade 17x14 in.; Length over all 57 in.; Weight each about 7 lbs.....Each, $1.75 2.20

This substantially made Scoop is very useful in clearing the Canal of Chips and pieces of ice; some prefer it to the Scoop Net.

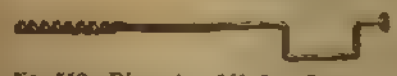
SCOOP NETS.

Welded Steel Chain Scoop, with Steel Ring, Galvanized; Plain Hardwood Handle.

No. 505—Length over all 5 ft.; Hoop 15 in. in Diameter; Weight each about 7 lbs.....Each, $3.00 3.40

Used to remove from the water small pieces of ice which obstruct the channel more or less, and it has the advantage of not freezing so as to impair its straining qualities.

ICE AUGERS.



Forged Tool Steel; Polished Twist Shank and Handle, Painted Red.

No. 510—Diameter 1⅛ in.; Length over all 3 ft. 6 in.; Length of Twist 12 in.; Weight each about 4 lbs. Each $3.50 4.30

This Auger is made with a long Shank, enabling the person to retain a standing position while using. It is used principally in making holes through which to measure the ice as well as in which to insert pins for stretching lines, towing floats and other purposes.

MEASURING IRONS.

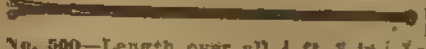
No. 512—Polished Cast Steel, 22 in. Long, ⅝ in. Wide; Graduated in in.; Weight each about 1 lb.....Each, $0.50 .90

ICE HOOK HANDLES.

Turned Ash; Diameter 1¼ in.

Nos.	2004½	2005	2006
Length, ft.	4½	5	6
Weight per dozen about, lbs	34	36	38
Per dozen	$3.50	4.00	5.50

LINE MARKERS.



Cast Steel Blade; Plain Hardwood Handle.

No. 500—Length over all 4 ft. 3 in.; Length of Marker Blade 7⅛ in.; Diameter of Handle 1¼ in.; Weight each about 2 lbs.....Each, $0.90 1.85

This Tool is a simple contrivance for the purpose of making a line by means of a straight edge in which to run the Marker Teeth, thus making the first groove in marking out the field of ice. For those who have no Hand Plow it is a sufficient substitute for this purpose.

Packed Loose.

ICE TOOLS.

GIFFORD-WOOD CO.

ICE HOOKS.

Forged Tool Steel Hooks and Sockets, Painted Black, Plain Selected Ash Handles, 1⅛ in. in Diameter; Length of Pike 3½ in.; Length of Hook 5 in.

Nos.	5203	5203½	5204	5204½	5205	5206
Length, ft.	3	3½	4	4½	5	6
Wgt. per doz. abt., lbs.	34	34	36	40	40	48
Per dozen	$ 9.60	9.60	9.25	9.50	10.00	10 50
	16.20	16.20	16.70	17.10	18.00	18.90
Nos.	5208	5210	5212	5214	5216	5218
Length, ft.	8	10	12	14	16	18
Wgt. per doz. abt., lbs.	52	68	72	84	90	114
Per dozen	$12.00	15.00	16.00	18.00	20.00	24.00
	21.60	25.20	28.80	32.40	36.00	39.60

REPAIRS FOR ICE HOOKS.

	Per Dozen
No. 530—Pullers for Ice Hooks; Weight per dozen about 11½ lbs.	$4.50 8.10
No. 532—Shovers For Ice Hooks; Weight per dozen about 7½ lbs.	2.75 5.00
No. 534—Rings For Ice Hooks; Weight per dozen about 1½ lbs.	.35 .60
No. 536—Rivets for Ice Hooks; (2 dozen required for 1 dozen hooks); Weight per dozen about ⅛ lb.	.03 .06

CAR HOOKS.

Forged Tool Steel Hooks and Sockets, Painted Black; Plain Selected Ash Handles.

Per Dozen

No. 522—Length over all 4 ft.; Diameter of Handle 1⅛ in.; Length of Pike 3½ in.; Length of Hook 5 in.; Weight per dozen about 8 lbs.....$12.00 21.60

Made the same as regular Ice Hooks, excepting that the shover iron extends 18 inches down the handle to strengthen and protect the wood for car use.

CANT HOOKS.

Forged Tool Steel Hooks and Sockets, Painted Black; Plain Selected Ash Handles.

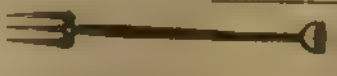
Per Dozen

No. 525—4 or 4½ ft. Handles; Diameter 1⅛ in.; Length of Pike 3½ in.; Length of Hook at End 6 in.; Length of Hook at Middle 6⅛ in.; Weight per dozen about 48 lbs.....$16.00 28.80

The use of the Cant Ice Hook is to "edge up" ice when packing into houses or barges, as is the custom with many Western packers

The Ice Hook, though so simple in its appearance, is absolutely necessary in the handling of ice and is to every ice dealer a very important part of a "set of tools."

ICE BREAKERS.



Tempered and Polished Tool Steel Tines; Soft Steel Sockets; Plain Hardwood Handles.

No. 667—D HANDLE; 3 Tine; Length over all 3 ft. 1 in.; Length of Tines 7⅛ in.; Width at Points 3 in.; Weight each about 5½ lbs.....$3.00 5.40

Tempered and Polished Tool Steel Tines; Soft Steel Sockets; Plain Hardwood Handles.

No. 685—LONG HANDLE; 3 Tine; Length over all 4 ft. 1 in.; Length of Tines 7⅛ in.; Width at Points 3 in.; Weight each about 5½ lbs.....$3.00 5.40

Breakers are not made for splitting large cakes of ice but rather for reducing the cakes to coarse pieces by a scaling process. They are very popular in fish markets and are suited to rapid work.

ICE RUN IRONS.

Width 1¼ in.

Nos.	750/12	750/14	750/16
Length, feet	12	14	16
Per foot	$0.08	.09	.09
	.11	.11	.11

Weight per foot about 1⅝ lbs.

To use on Wooden Runs made without sides. The V surface slightly grooves the ice as it runs over it and prevents cakes from sliding off.

Packed Loose.

RIDING SADDLES.

WE HAVE MADE every effort to bring our Saddles to the high point of perfection claimed for them.

IN THE CONSTRUCTION of all our medium and high-grade Stock Saddles, we use the best California russet color skirting leather of the proper weight to make them substantial, and the workmanship is the product of the best mechanics.

WE MANUFACTURE them in all grades from the reliable every-day suit to the most elaborate up-to-date style of pure Western type.

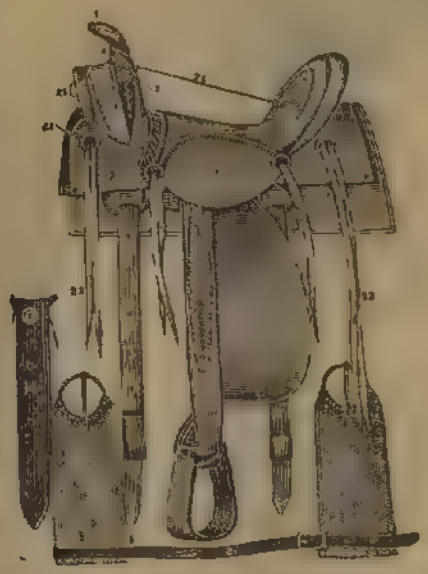
THEY ARE BUILT on trees of superior form and strength, which are Kip, Hog or Beef hide covered.

O. K. LINE of Sorensets, Spring Seats, Mosbys and McClellans are all the latest patterns and of exceeding good values.

OUR SIDES and Cow Girl Saddles are of a variety that are called for and are in use in all localities.

ALL PATTERNS are full size according to their grade.

ILLUSTRATIONS SHOWING THE DIFFERENT PARTS OF A SADDLE.



Showing a Stock Saddle with California Front Rig, each part numbered and the name of the part given in full.

1 Head. } Horn.
2 Neck. }
2½. Fork.
3 Front Rigging (California style).
4 Seat (full).
5 Cantle (straight).
6 Jockey (one piece).
7 Front Jockey or Housing.
8 Rear Jockey or Housing.
9. Skirt.
10 Nigger Catcher, or Tie Strap Loop.
11 Stirrup Leather.
12 Sweat Leather or Fender.
13 Tie Straps.
14 Off Billets—strap to which girth is buckled on off side.
15 Skirt Lining.
16 Cinchas or Girths.
17 Stirrups, Turner, Laced.
18 Girth Chafe and Housing.
19 Flank Rigging.
20 Gullet.
21 Hobble or Connecting Strap.
22 Rosettes or Conchas.
23 Strings.
24 to 25. Length of Seat.

Showing the Stock Saddle with what is called a Strap Front Rig a Roll Cantle and Three quarter Seat.

1. Strap, Front Rig.
2. Three-fourth Seat.
3. Drop Cantle.
4. Jockey (stitched on).

Showing a Mosby Saddle. These Saddles are very popular in Kentucky and Tennessee. There are several Styles of Saddles belonging to this class that you will find fully Illustrated and Described in our Catalog.

1. Seat.
2. Cantle.
3. Thigh Puff.
4. Housing.
5. Knee Puff.
6. Stirrup Leather.
7. Skirt.

Showing a Side Saddle. Our Line of Side Saddles is very large, ranging in price from the cheapest to the very finest English Saddles.

1. Horn.
2. Leaping Horn.
3. Seat.
4. Cantle.
5. Jockey.
6. Housing.
7. Skirt.
8. Stirrup Leather.
9. Stirrup with Tapadero.

SADDLES.

SIMMONS'

STOCK.

DESCRIPTION

TREE — No 1336, Portland, 14½ in. Seat Steel Fork, Beef Hide Covered

HORN—Covered, with Cap; Hand Stitched

SKIRTS 14½ in Deep, 30 in Long; Wool Lined Stamp Checkered Border with Front and Back Hoods to Match.

CANTLE—Straight; Hand Stitched, Raised Stamped

SEAT — Full; Jockeys, Cantle and Seat in One Piece Front Border Fancy Stamped, Border Stamped Jockeys; Iron Strainer under Cover

FOREPIECE — Full Hand Raised; Stamped, ⅝ in. Buckling Strap on Off Side

SINGLE RIG—Western Style.

STIRRUP STRAPS — 2 in., Two Rows Stamped; Heavy Lined at Bottom; Made to Lace

FENDERS—9½ in. Wide, 19 in. Long, Hand Riveted to Stirrup Straps, Checkered Stamped Border.

GIRTH STRAPS—2 in., Heavy Latigo Leather; To Tie.

CINCHA—No. 175, 24 Strand California White Angora Hair, With Wool Lined Housing

STIRRUPS—No 39B—Hardwood, Brass Bound, Leathered at Top and Bottom.

RINGS—Covered and Stitched.

LEATHER—Russet Skirting, Fair or Oiled

No. 539—Tie Strings, as shown in Cut.....Each, $79.00

Packed Loose; Weight Each about 32 lbs.

STOCK.

DESCRIPTION.

TREE—No. 1245; Gridley; 14 in. Seat; Steel Fork; Beef Hide Covered.

HORN — Covered and Stitched with Cap

SKIRTS—13 in Deep 29 in Long Wool Lined Plain Finished with Front and Back Hoods to Match

CANTLE — Straight; Hand Stitched; Hand Raised Stamped.

SEAT — Full; Jockeys, Cantle and Seat in one Piece; Front Border Fancy Stamped; Plain Jockeys; Iron Strainer under Cover.

FOREPIECE — Full Hand Raised Stamped; ⅝ in. Tie String on Off Side.

SINGLE RIG—Purely Western Style.

STIRRUP STRAPS — 2 in.; Plain Finished; Heavy Lined at Bottom; Made to Lace.

FENDERS—8½ in. Wide, 16 in. Long; California Style; Hand Raised to Stirrup Straps; Plain Finished.

GIRTH STRAPS—1¾ in.; Heavy Latigo Leather; To Tie.

CINCHA—No. 175; 24 Strand California White Angora Hair.

STIRRUPS—No. 837; Metal; Stockman's.

RINGS—Covered and Stitched.

LEATHER—Russet Skirting, Fair or Oiled.

No. 520—Tie Strings as shown in Cut.....Each, $61.50

Packed Loose; Weight Each about 28 lbs

SADDLES.

STOCK.

DESCRIPTION.

TREE—No. 1245, 14 in. Seat, Gridley Beef Cover Steel Fork

HORN — Covered Hand Stitched, with Cap.

SKIRTS — 12¾ in. Deep, 28 in Long, Wool Lined, Hand Raised Stamped.

CANTLE — Straight; Hand Stitched Raised Stamped.

SEAT—Full; Jockeys, Cantle and Seat in One Piece, Jockeys Hand Raised Stamped

FOREPIECE—Full Hand Raised Stamp.

STIRRUP STRAPS—3 in.; Two Rows Stamped; Heavy Lined at Bottom, Made to Lace.

FENDERS—8¾ in. Wide; 17½ in. Long; Riveted to Stirrup Strap; Hand Raised Stamped.

GIRTH STRAPS—1⅝ in.; Heavy Latigo Leather; To Tie.

GIRTH OR CINCHAS—No. 164, 27 Strands Soft Gray Hair, Mexican.

STIRRUPS—No. 30, 1½ in. Ox Bow; Leathered Bottom.

RINGS—Covered and Stitched.

LEATHER—Russet California Skirting.

No. 543—Tie Strings as shown in Cut.....Each, $66.00

Packed One or More in a Wood Box.

Above Saddle is made Single Rig Western Style.
Weight Each about 30 lbs.

STOCK.

DESCRIPTION.

TREE—No. 1366; Alberta, 14½ in Seat; Steel Fork, Beef Hide Covered

HORN — Covered with Cap; Hand Stitched

SKIRTS — Round Corners; California Style 13 in. Deep, 26 in Long; Wool Lined; Plain Finished, with Front and Back Hoods to Match.

SEAT—Full; Jockeys, Cantle and Seat in One Piece Front Border Fancy Stamped; Plain Finished Jockeys; Iron Strainer under Cover

FOREPIECE — Full Hand Raised Stamped; ⅝ in. Tie String on Off Side

SINGLE RIG—Purely Western Style.

STIRRUP STRAPS—2 in Plain Finish; Heavy Lined at Bottom; Made to Lace.

FENDERS—8½ in. Wide; 18 in. Long; California Style; Hand Riveted to Stirrup Straps; Plain Finish.

GIRTH STRAPS—1¾ in.; Heavy Latigo Leather; To Tie.

CINCHA—No. 175; 24 Strand California White Angora Hair

STIRRUPS—No. 887; Metal, Stockman's.

RINGS—Covered and Stitched.

LEATHER—Russet Skirting, Fair or Oiled

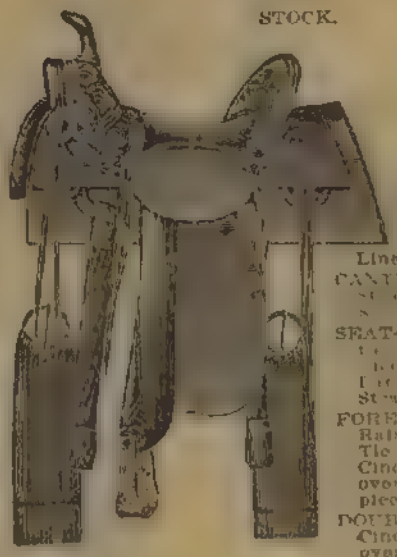
No. 525—Tie Strings as shown in Cut.....Each, $64.00

Packed Loose; Weight Each about 28 lbs.

SADDLES.

SIMMONS*

STOCK.



DESCRIPTION.

TREE—No. 1542—Improved Red Cloud; 15½ in. Seat, Steel Fork; Hog Skin Covered.

HORN — Covered with Cap, Hand Stitched

SKIRTS—13 in. Deep, [illegible] in. Long; Wool Lined; Plain Finished.

CANTLE—Straight, Hand [illegible] and Raised [illegible]

SEAT—Full Jockey, Cantle and Seat in One Piece; Front Border Fancy Stamped; Iron Strainer under Cover.

FORE PIECE—Full Hand Raised Stamped [illegible] Tie String on Off Side Cinch Rigging running over Saddle under Forepiece.

DOUBLE RIG—With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece.

STIRRUP STRAPS—3 in.; Plain Finished; Heavy Lined at Bottom; Made to Lace.

FENDERS—9½ in. Wide, 17½ in. Long; Riveted to Stirrup Straps, Plain Finished

GIRTH STRAPS—No. 232, 1¾ in., To Buckle and Tie.

OFF BILLETS—No. 234, 2 in.; To Buckle

CINCHAS—Front, No. 164; 27 Strand Soft Gray Hair; Flank, No. 163, 20 Strand, Soft Gray Hair; Texas, with Tongues.

STIRRUPS—No. 387; Metal, Stockman's; XC Plate (Tinned)

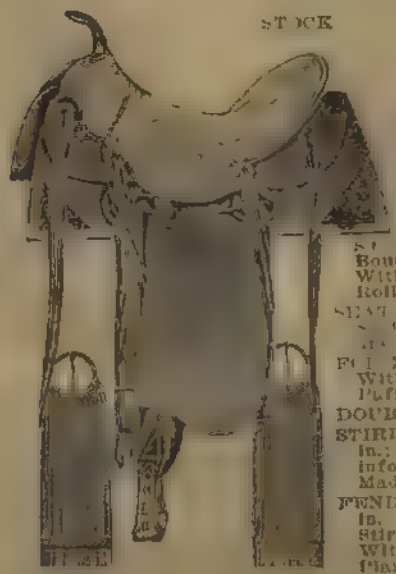
RINGS—Covered and Stitched.

LEATHER—Russet Skirting, Fair or Oiled.

No. 3385½—Tie Strings, as shown in Cut.....Each, $66.00

Packed Loose, Weight Each about 31 lbs.

STOCK.



DESCRIPTION.

TREE—No. 1420, Canby; 15 in. Seat, Steel Fork; Hog Skin Covered

SKIRTS—12 in. Deep, 26 in. Long; Wool Lined; Fancy Impressed Corners

CANTLE—Straight Roll, Bound; Hand Stitched With Front Quilted Roll

SEAT—Calfskin Quilted [illegible] Cover, Cantle and Front

FORE PIECE — Leather, With Quilted Calfskin Puff, to Match Seat.

DOUBLE RIG

STIRRUP STRAPS—1¼ in.; Plain Finished, Reinforced at Bottom Made to Buckle.

FENDERS—9 in. Wide, 16 in. Long; Riveted to Stirrup Straps at Top With Loop at Bottom Plain Smooth Finished.

GIRTH STRAPS—No. 232; 1¾ in.; To Buckle and Tie.

OFF BILLETS—No. 234; 1¾ in.; To Buckle

CINCHAS—No. 161; 20 Strand White Cotton; Texas, with Tongues.

STIRRUPS—No. 387; Metal, Stockman's; XC Plate (Tinned)

RINGS—Covered and Stitched.

LEATHER—Russet Skirting

	Each
No. 501—WITH FULL NICKEL PLATED HORN..	$48.00
No. 502—WITH COVERED HORN	46.00

Tie Strings as shown in Cut.

Packed Loose; Weight Each about 32 lbs.

SADDLES.

[illegible]

PHYSICIANS'

DESCRIPTION.

TREE — No. 1420; Canby; 15 in. Seat; Steel Fork, Canvas Covered.

SKIRTS — 24 in. Deep, extending down from Horn, 15 in. Wide; Shaped with Round Bottom Unlined; Plain Finished.

CANTLE — Roll; Calf Seating; Hand Raised and Quilted.

SEAT.

SINGLE RIG.

STIRRUP STRAPS—1½ in.; Plain Finished; Reinforced at Bottom; Slide Loop and Made to Buckle

GIRTH STRAPS—1¾ in.; To Tie.

GIRTH OR CINCHA—No. 10; 4 in.; Fancy Cotton Corded; With Rings and Chapes.

HOUSING—Leather; With Ring and Strap

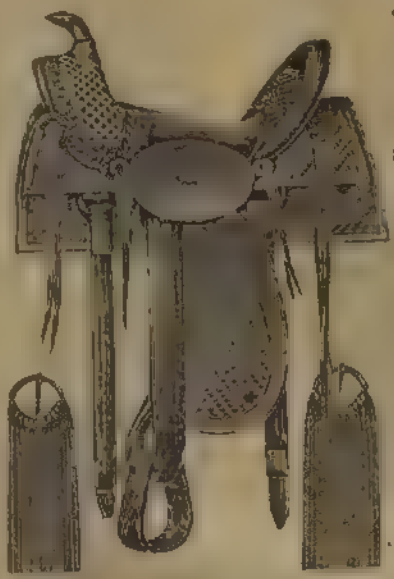
STIRRUPS—No. 387; Metal, Stockman's, XC Plate (Tinned).

BARS—Leather Lined extending down under Cinch Rigging.

	Each
No. 500—WITH FULL NICKEL PLATED HORN	$39.50
No. 500A—WITH LEATHER COVERED HORN	39.50

Packed Loose; Weight Each about 15 lbs

STOCK.



DESCRIPTION

TREE—No. 1420, Improved Simmons; 15 in. Seat Steel Fork, Hog Skin Covered

HORN — Covered and Stitched

SKIRTS—12 in. Deep, 26 in. Long; Felt Lined; Corners Basket Stamped, with Front and Back Hoods Stamped to Match

CANTLE—Roll, Checker Stamped

SEAT—Full Jockey, Cantle and Seat in One Piece; Front Border Fancy Stamped, Iron Strainer under Cover

FORE PIECE—Full Checker Stamped, Cinch Rigging running over Saddle under Forepiece

DOUBLE RIG With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece

STIRRUP STRAPS—2½ in.; Plain Finished; Lined at Bottom; Made to Lace.

FENDERS—9 in. Wide, 18½ in. Long; Riveted to Stirrup Straps; Corner Basket Stamped

GIRTH STRAPS—No. 232; 1¾ in.; To Buckle and Tie.

OFF BILLETS—1¾ in.; To Buckle.

CINCHAS—No. 161; 20 Strand White Cotton; Texas, with Tongues.

STIRRUPS—2 in. Wide at Bottom.

RINGS—Covered and Stitched.

LEATHER—Russet Skirting, Fair or Oiled.

	Each
No. 316—WITH SOLID BENT WOOD STIRRUPS, No 11	$42.00
No. 316M—WITH METAL STIRRUPS.....	43.00

Tie Strings as shown in Cut.

Packed Loose, Weight Each about 33 lbs.

SADDLES.

SIMMONS'
STOCK.

DESCRIPTION.
TREE — No. 1339; Improved Simmons; 16 in. Seat, Steel Fork; Hog Skin Covered.
HORN — Covered, with Cap; Hand Stitched.
SKIRTS — 12 in Deep, 27 in Long, Wool Lined; Fancy Impressed Corners, with Front and Back Hood to Match.
CANTLE — Hand Stitched; Checker Stamped.
SEAT—Full, Jockey, Cantle and Seat in One Piece; Front Border Fancy Stamped; Jockeys Full Checker Stamped; Iron Strainer under Cover.
FOREPIECE—Full Checker Stamped; ⅝ in. Tie String on Off Side; Cinch Rigging running over Saddle under Forepiece.
DOUBLE RIG—With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece.
STIRRUP STRAPS—2 in., Basket Stamped Fancy Design, Heavy Lined at Bottom, Made to Lace.
FENDERS—9½ in. Wide, 17 in. Long, Riveted to Stirrup Straps, Impressed Fancy Design at Bottom.
GIRTH STRAPS—1⅝ in.; To Buckle and Tie.
OFF BILLETS—No. 234, 1⅝ in.; To Buckle.
CINCHAS—Front, No. 164; 37 Strand Soft Gray Hair; Flank, No. 163, 20 Strand Soft Gray Hair; Texas, with Tongues.
STIRRUPS—No. 887; Metal; Stockman's; XC Plate (Tinned).
RINGS—Covered and Stitched.
LEATHER—Russet Skirting, Fair or Oiled.

No. 333—WITH STRAIGHT CANTLE	$55.00
No. 333½—WITH ROLL CANTLE	56.00

Tie Strings as shown in Cut.
Packed Loose; Weight Each about 27 lbs.

SADDLES.

SIMMONS'
STOCK.

DESCRIPTION.
TREE — Steinway; 14½ in. Seat; Hog Skin Covered.
HORN — Covered and Stitched.
SKIRTS—12 in. Deep, 24 in. Long; Felt Lined; Plain Finished.
CANTLE — Roll; Basket Stamped.
SEAT—Full; Jockey, Cantle and Seat in One Piece.
FOREPIECE—Covered, 2 in. Outside Cinch Rigging running over Top, Fancy Stamped.
DOUBLE RIG—With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece.
STIRRUP STRAPS—2¼ in.; Fancy Stamped Center; Lined at Bottom. Made to Lace.
FENDERS—8½ in. Wide, 15 in. Long, Riveted to Stirrup Straps; Plain Finished.
GIRTH STRAPS—1⅝ in., 5 ft. To 5 ft. Long.
OFF BILLETS—1⅝ in.; To Buck
CINCHAS—No. 161; 20 Strand White Cotton; Texas, with Tongues.
STIRRUPS—2 in. Wide at Bottom.
RINGS—Covered and Stitched.
LEATHER—Russet Skirting, Fair or Oiled.

	Each
No. 310—WITH SOLID WOOD FORK TREE; SOLID BENT WOOD STIRRUPS, No. 11	$33.00
No. 310½—WITH STEEL FORK TREE; SOLID BENT WOOD STIRRUPS, No. 11	34.00
No. 310M—WITH SOLID WOOD FORK TREE; METAL STIRRUPS	33.00
No. 310½M—WITH STEEL FORK TREE; METAL STIRRUPS	34.00

Tie Strings as shown in Cut.
Packed Loose; Weight Each about 20 lbs.

STOCK

DESCRIPTION.
TREE — No. 1339; Improved Simmons, 15½ in., Seat; Steel Fork, Hog Skin Covered.
HORN — Covered, with Cap; Hand Stitched.
SKIRTS — 12 in Deep, 26 in Long, Felt Lined; Wheeled and Creased Border.
CANTLE — Roll; Hand Stitched; Basket Stamped.
SEAT — Full; Jockey Cantle and Seat in One Piece; Front Border Fancy Stamped, Iron Strainer under Cover.
FOREPIECE—Full Basket Stamped; ⅝ in. Tie String on Off Side; Cinch Rigging running over Saddle under Forepiece.
DOUBLE RIG—With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece.
STIRRUP STRAPS—2¼ in.; Wheeled and Creased Edge; Heavy Lined at Bottom; Made to Lace.
FENDERS—9 in. Wide, 16½ in. Long, Riveted to Stirrup Straps, Wheeled and Creased Border.
GIRTH STRAPS—No. 223, 1½ in.; To Buckle and Tie.
OFF BILLETS—No. 234, 1¾ in.; To Buckle.
CINCHAS—No. 161; 20 Strand White Cotton; Texas, with Tongues.
STIRRUPS—2 in. Wide at Bottom.
RINGS—Covered and Stitched.
LEATHER—Russet Skirting, Fair or Oiled.

No. 320—WITH SOLID BENT WOOD STIRRUPS No. 11	$45.00
No. 320M—WITH METAL STIRRUPS	46.00

Tie Strings as shown in Cut.
Packed Loose; Weight Each about 24 lbs.

STOCK

DESCRIPTION.
TREE — Steinway; 14½ in. Seat; Hog Skin Covered.
HORN — Covered and Stitched.
SKIRTS—12 in. Deep, 24 in. Long; Felt Lined; Plain Finished.
CANTLE — Roll.
SEAT—Full; Jockey, Cantle and Seat in One Piece.
FOREPIECE—Full Covered; 1¾ in. Outside Cinch Rigging running over Top.
DOUBLE RIG—With Back Cinch Rigging running over Saddle, back of Cantle, in One Piece.
STIRRUP STRAPS—1¾ in., Fancy Stamped Center; Lined at Bottom, Made to Lace.
FENDERS—8½ in. Wide, 15 in. Long, Riveted to Stirrup Straps, Plain Finished.
GIRTH STRAPS—No. 223, 1½ in.; To Buckle.
OFF BILLETS—No. 234, 1¾ in.; To Buckle.
CINCHAS—No. 161; 20 Strand White Cotton, Texas, with Tongues.
STIRRUPS—2 in. Wide at Bottom.
RINGS — Covered and Stitched.
LEATHER—Russet, Glazed Skirting.

	Each
No. 308—WITH SOLID WOOD FORK TREE; SOLID BENT WOOD STIRRUPS, No. 11	$31.00
No. 309—WITH STEEL FORK TREE; SOLID BENT WOOD STIRRUPS, No. 11	32.00
No. 309M—WITH SOLID WOOD FORK TREE; METAL STIRRUPS	32.00
No. 309½M—WITH STEEL FORK TREE; METAL STIRRUPS	33.00

Tie Strings as shown in Cut.
Packed Loose; Weight Each about 18 lbs.

WASHING MACHINES

ROTARY

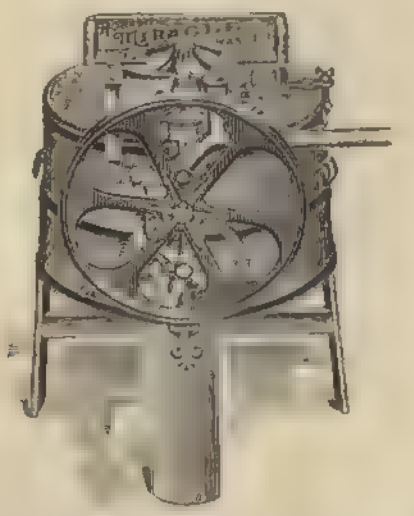
Each

No. 12—Best Grade Louisiana Red Cypress Tub, Natural Wood Finish, Corrugated Inside Sides and Bottom, Extra Heavy Lid, Solid Stave Legs, Gold Bronzed Castings, Green Enameled Fly Wheel and Hoops..$12.00

This machine is equipped with the most simple, lightest running, highest speeded rotary mechanism Made. It has no springs, no friction, no idle gears, nothing likely to break or wear out

Weight Each, Crated, 80 Pounds

MIRACLE



Each

No. 22—Best Grade Louisiana Red Cypress Tub, Natural Wood Finish, Corrugated Inside Sides and Bottom, Heavy Lid, Solid Stave Legs, Gold Bronzed Castings, Green Enameled Fly Wheel and Hoops.....$14.50

A combined momentum hand and power machine The operating lever can be placed either in a horizontal or perpendicular position, to suit convenience of operator To convert into a power machine the fly wheel can be replaced with an 8 in pulley wheel. No tight and loose pulleys and guides are required, as the power need not be shut off when lid is opened

Weight Each, Crated, 100 Pounds

GLOBE

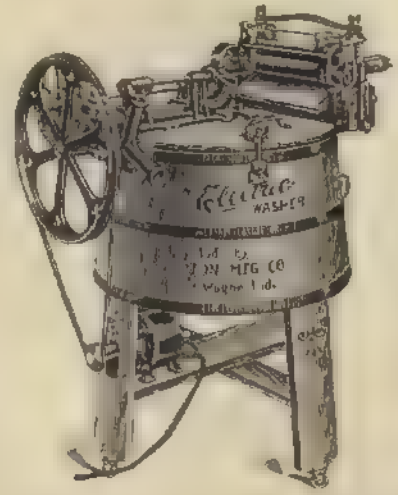
Each

No. 1 Medium Family Size, Best Grade Louisiana Cypress, Natural Wood Finish, Malleable Castings $11.50

The original double-rubber pattern. All castings and bolts coming in contact with water are galvanized to prevent rust. The legs are firmly secured with heavy bolts, two having casters.

Weight Each, Crated, 90 Pounds

HORTON ELECTRIC



The reversible wringer is equipped with patented automatic safety device to prevent injury to fingers.

In case of temporary trouble with motor or current, both the machine and wringer can be operated by hand

Each

No. 26 Best Grade Louisiana Red Cypress Tub, Natural Wood Finish, Gold Bronzed Castings, Green Enameled Fly Wheel and Hoops, High Speed Momentum Mechanism, One-tenth Horse Power Special Motor, Ball Bearing Steel Frame Wringer with 10x1¾ In. Rolls Guaranteed for Five Years, Reversible Wringer Attachment, Strong Ball Bearing Casters, Complete with 10 ft. of Cord and Attaching Plug, Weight Each 200 Lbs $100 00

No. 020—Without Wringer, Otherwise Same as Above, Weight Each 175 Lbs..... 70.00

Note—When ordering, always state if to be used for Alternating or Direct Current

WASHING MACHINES

"MOTOR" HIGH SPEED, BALL BEARING

The Washer that Runs Easier Loaded than Others do Empty

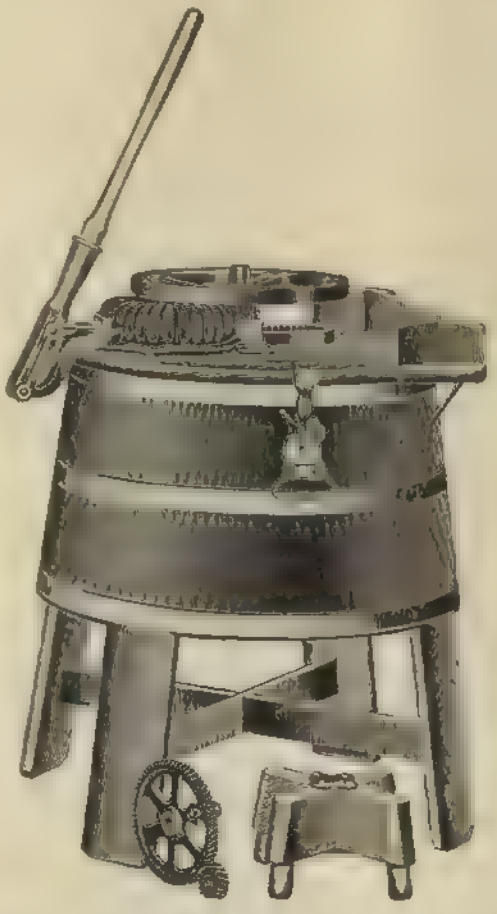
The "Motor" High Speed is the world's greatest time and labor saver to the housewife

Its spiral cut gears insure speed. No other washing device gives so much power with so little effort

It washes the clothes whiter, without any of the wearing friction of the washboard. It makes the clothes look better and last longer

Its four-winged wooden dolly sends 320 gallons of hot, soapy water through the clothes each minute, and yet the most delicate laces and heaviest pieces are cleansed equally well

It is impossible to injure the clothes or your hands, because the working parts are all inclosed



It has a secure cover lock that holds in heat and steam, and an automatic cover lift that makes it open without effort

It has roller bearings that not only help in speed, but keep the bearings from wearing out.

It has a metal faucet for draining water from tub

It has a real furniture finish, and its Louisiana Red Cypress Tub never warps, checks or cracks when properly cared for

Guaranteed for five years

There is no Motor Connected with this Machine

	Each
"Motor" High Speed—Best Grade Louisiana Red Cypress Tub, Natural Wood Finish, Corrugated Inside Sides and Bottom, Spiral Cut Gears, Roller Bearings, Four-Winged Wooden Dolly, Secure Cover Lock, Automatic Cover Lift, Metal Faucet, Iron and Steel Parts Thoroughly Covered with Aluminum Paint, Galvanized Inside Parts, Solid Stave Legs	**$17.00**

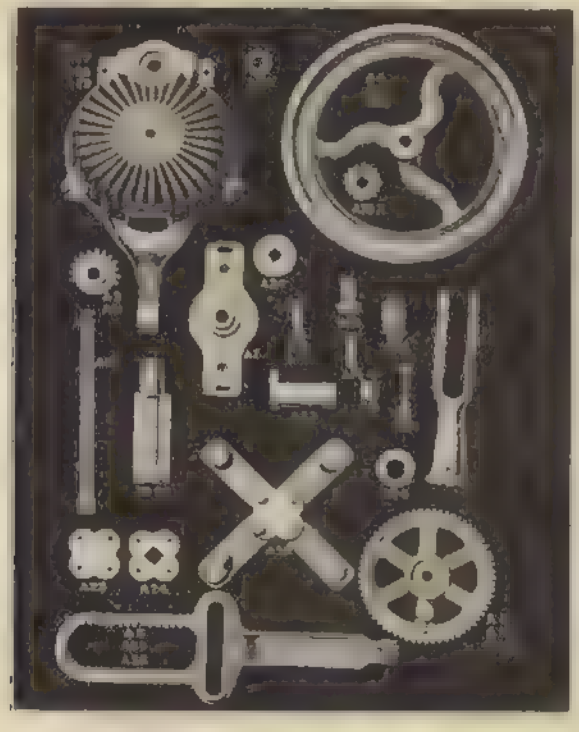
Weight Each, Crated, 85 Pounds

REASONS WHY IT IS THE BEST

Exclusive, patented features not found in any other washer.
Spiral Cut Gears—gives speed, ease and accuracy.
The Gears keep the dolly churning hot, soapy water through the clothes at the rate of 320 gallons a minute
Gears are entirely enclosed—insuring absolute safety.
The four-winged dolly cannot catch or tear the clothes
Runs easier loaded than others do empty.
Automatic Cover Lift—makes lifting the lid as easy as pressing a button
Cover Lock—securely locks the lid so heat won't escape.
Ball Bearings relieve gritting, sticking and noise
Washes the heaviest blankets or most delicate laces.
Positively will not injure the clothes, in fact, there is less wear than the old washboard and tub method.
Saves needless slop and steam around the house and thereby promotes health and cleanliness.
Its operation takes no more effort than running a sewing machine.

WASHING MACHINE PARTS

"MOTOR" HIGH SPEED

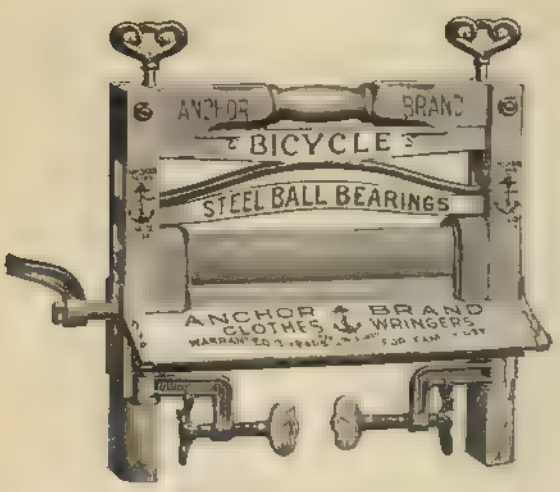


		Each
No. A1	Main Casting for No. A6, Weight 6 Lbs 8 Oz.	$2 00
No. A17	Main Casting for No. A16, Weight 6 Lbs 8 Oz.	2 00
No. A26	Main Casting with ⅞ in. Hole for No. A19X, Weight 6 Lbs. 4 Oz.	2 00
No. A28	Main Casting with ⅝ in. Threaded Hole for No. A27, Weight 6 Lbs. 4 Oz.	2 00
No. A29	Main Casting with ⅝ in. Threaded Hole for No. A27, Weight 6 Lbs. 4 Oz.	2 00
No. A4	Balance Wheel, 14 Teeth, Weight 10 Lbs. 7 Oz.	2 00
No. A15	Balance Wheel, 12 Teeth, Weight 9 Lbs 7 Oz.	2 00
No. A22	Balance Wheel and Spiral Cut Pinion No A18X, Weight 8 Lbs. 11 Oz	3 00
No. A18X	-Balance Wheel Pinion, Spiral Cut, 16 Teeth, Weight 7 Oz.	1 00
No. A5	Rack, Interchangeable, Weight 3 Lbs. 8 Oz.	.80
No. A20	—Rack, Interchangeable, Weight 3 Lbs 8 Oz	80
No. A28	—Rack for No. A29, Weight 3 Lbs. 12 Oz	.80
No. A6	—Main Drive Gear, 56 Teeth, Weight 2 Lbs. 6 Oz.	80
No. A16	—Main Drive Gear, 54 Teeth, Weight 2 Lbs. 8 Oz.	80
No. A19X	Main Drive Gear, 64 Teeth, Spiral Cut, Weight 2 Lbs. 6 Oz.	2 00
No. A27	Main Drive Gear, 64 Teeth, Spiral Cut, ⅝ in. Hole, Weight 2 Lbs. 9 Oz.	2 00
No. A7	—Wood Handle Casting, Weight 1 Lb. 15 Oz	60

		Each
No. A12	Wood Pin Block, Weight 2 Lbs 0 Oz	$0 60
No. A50	Wing Dolly, Weight 3 Lbs. 10 Oz	1 00
No. A2	Dasher Post Cover Casting, Weight 1 Lb 2 Oz.	80
No. A3	Dasher Post Pinion, Interchangeable, Weight 1 Lb	.80
No. A21	Dasher Post Pinion, Interchangeable, Weight 1 Lb.	80
No. A8	Drive Gear Roller, Weight 2 Oz.	40
No. A12	Drive Gear Stud, ⅞ in Size, for Nos. A6, A16, A19X, Weight 4 Oz.	40
No. A13	Drive Gear Stud Nut ⅞ in Size, for Nos A6, A16 A19X, Weight 4 Oz	40
No. A51	Drive Gear Stud and Nut, ⅝ in Size, for No. A27, Weight 3 Oz.	40
No. A14	Drive Gear Roller Stud, Weight 1 Oz.	40
No. 4	Galvanized Dasher Post Collar, Weight 4 Oz	40
No. 94	Galvanized Dasher Post, Weight 1 Lb 8 Oz.	60
No. A52	Steel Washer, 2¼ in., for No. A51, Weight 2 Oz	40
No. A23	Wing Dolly Center Casting, Weight 11 Oz	40
No. A24	Dolly Top Plate, Square Hole, Weight 2 Oz	40
No. A25	Dolly Bottom Plate, Weight 2 Oz	40
No. A53	Cover Spring, Weight 4 Oz.	.80
No. A54	Cover Spring Fastener, Weight 1 Oz.	.40
No. A55	-Square End Dolly Shaft, Weight 1 Lb. 2 Oz	1.00
No. A56	Ball Bearing Case Weight 1 Oz.	60

CLOTHES WRINGERS

BICYCLE, BALL BEARINGS



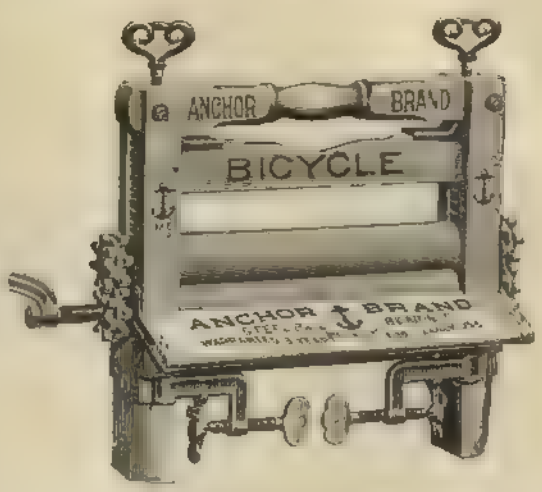
Warranted 3 Years

Enclosed Cog Wheels, Natural Finished Hardwood Frame, Blue Wood Springs, Red Flat Steel Spring, Galvanized Metal Parts, "Hold Fast" Tub Clamps Open 1⅝ in., for Galvanized Iron, Wood or Fibre Tubs.

No.	770
Rolls, Inches	10x1¾
Weight Per Dozen, Lbs.	275
Per Dozen	$80.00

One-quarter Dozen in a Box

BICYCLE, BALL BEARINGS



Warranted 3 Years

Natural Finished Hardwood Frame, Blue Wood Spring, Steel Spiral Springs, Galvanized Metal Parts, "Hold Fast" Tub Clamps Open 1⅝ in., for Galvanized Iron, Wood or Fibre Tubs.

No.	312
Rolls, Inches	12x1¾
Weight Per Dozen, Lbs.	300
Per Dozen	$108.00

One-quarter Dozen in a Box

EASY, BALL BEARINGS

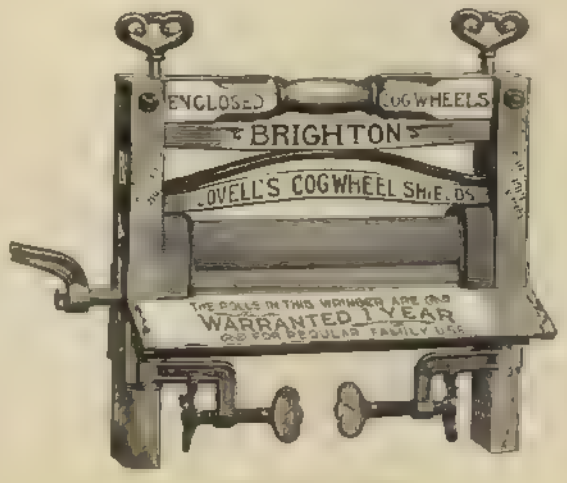
Warranted 1 Year

Enclosed Cog Wheels, Natural Finished Hardwood Frame, Natural Finished Wood Springs, Flat Steel Spring, Galvanized Metal Parts, "Hold Fast" Tub Clamps Open 1⅝ in., for Galvanized Iron, Wood or Fibre Tubs

No.	730
Rolls, Inches	10x1¾
Weight Per Dozen, Lbs	275
Per Dozen	$70.00

One-quarter Dozen in a Box

BRIGHTON, PLAIN METAL BEARINGS



Warranted 1 Year

Enclosed Cog Wheels, Natural Finished Hardwood Frame, Natural Finished Wood Springs, Flat Steel Spring, Galvanized Metal Parts, "Hold Fast" Tub Clamps Open 1⅝ in., for Galvanized Iron, Wood or Fibre Tubs

No.	630
Rolls, Inches	10x1¾
Weight Per Dozen, Lbs	270
Per Dozen	$63.00

One-quarter Dozen in a Box

PADLOCKS.

BULL DOG.

Self-locking Malleable Nickel Plated Spring Shackle; Spacing of Shackle, Closed, ⅝x1 in.; 1 Galvanized Steel Lever; 3 Steel Nickel Plated Flat Keys to each Lock. 12 in. Nickel Plated [illegible] 12 CHANGES

No. 504 [illegible] 2 IN. WROUGHT STEEL [illegible] Weight per dozen about 4 lbs. Per Dozen, $7.80

[illegible] Cardboard Box

BULL DOG.

Spacing of Shackle, Closed ⅝x⅝ in.; 12 in. Nickel Plated Steel Chain; Galvanized Lever, 2 Flat Steel Nickel Plated Keys to each Lock; 6 CHANGES

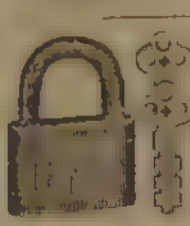
Per Dozen

No. 498 C—1½ in. WROUGHT STEEL CASE, Black Enameled, Malleable Iron Nickel Plated Self-locking Spring Shackle $6.80

No. 498 C—1½ in. WROUGHT BRASS CASE, Satin Dip Finish; Malleable Iron Black Enameled Self-locking Spring Shackle 8.00

One Dozen in a Cardboard Box

Weight per dozen about 2 lbs.



With Wrought Steel Brass Plated Panel; Steel Self-locking Spring Shackle, Brass Plated, Swings either Right or Left; Spacing of Shackle, Closed, 1x1 in.; 2 Flat Steel Nickel Plated Keys to each Lock; 4 CHANGES

No. 225—2 IN. CAST IRON CASE, Bower-Barff FINISH; Weight per doz. abt. 5 lbs. Per Dozen, $6.80

SMALL SHACKLE FOR AUTOMOBILE TOOL BOXES or any purpose where a Small Shackle Spacing is necessary

Malleable Self-locking Spring Shackle Spacing of Shackle Closed, 5/16x7/16 in.; 4 Secure Tumblers; 150 CHANGES; 2 Flat Steel Keys, Nickel Plated.

No. 71—1¼ IN. CAST BRONZE CASE, with Raised Polished Edges Weight per doz. abt. 1½ lbs. Per Dozen, $6.50

Malleable Polished Shackle and Case Edges; Spacing of Shackle when Closed ½x9/16 in., Four Secure Tumblers with Dog; 2 Nickeled Flat Steel Keys each made Regular in 150 Key Changes.

No. 72—1¼ IN. HEAVY CAST BRONZE CASE; Weight per dozen 1½ lbs. ..... Per Dozen, $6.90

One-half Dozen in a Cardboard Box

PADLOCKS.

Cast Brass Case, Self-locking [illegible] Steel Shackle [illegible] ing of Shackle [illegible] Closed [illegible] Brass Levers [illegible] 3 Flat Steel Keys [illegible] Nickel Plated Locking [illegible] Nickel Plated Extra Heavy Flat Steel Keys to each Lock; 12 CHANGES

No. 82—2¼ IN. CAST BRASS CASE, POLISHED FINISH; Weight per dozen about 5 lbs. ... Per Dozen, $6.90

BULL'S EYE.

With Raised Polished Letters; Plain Wrought Brass Polished Re-enforced Ends, Malleable Iron Black Enameled Self-locking Spring Shackle. Spacing of Shackle, Closed, ⅝x1½ in.; 2 Corrugated Steel Nickel Plated Keys to Each Lock, 6 CHANGES

No. 732—2 IN STEEL CASE, BLACK ENAMELED; Weight per dozen about 6 lbs. ..... Per Dozen $6.90

One-half Dozen in a Cardboard Box.

WROUGHT STEEL BRASS PLATED CASE; Self-locking Malleable Spring Shackle; Spacing of Shackle, Closed, ⅝x1 in.; 6 Secure Brass Levers; 2 Malleable Brass Plated, Double Bitted, Drilled Keys to each Lock; 12 CHANGES

Per Dozen

No. 2916¼—2½ IN.; Weight per dozen about 8 lbs. $7.40

No. 2918¼C—2½ IN.; WITH 9 IN. STEEL JAPANNED CHAIN; Weight per dozen about 10 lbs. 9.50

Very Heavy and Exceptionally Secure.

One-half Dozen in a Cardboard Box.

Self-Locking Brass Spring Shackle; Spacing of Shackle, Closed, 15/16x⅝ in.; Spring Keyhole Drop; 1 Brass Lever and Ward; 2 Cast Brass Drilled Keys to each lock; 6 CHANGES.

No. 1273—2 IN. CAST BRASS POLISHED CASE; Weight per dozen about 4½ lbs ..... Per Dozen, $6.50

Steel Nickel Plated Self-locking Spring Shackle; Spacing of Shackle, Closed ⅝x⅝ in.; Brass Rivets; 3 Lever Tumblers; 2 Flat Steel Keys (No. 771) to each Lock; 48 CHANGES.

Per Dozen

No. 583—1½ IN. SEAMLESS STEEL CASE, BOWER-BARFF FINISH Weight per dozen about 4 lbs.. $3.60

One-half Dozen in a Cardboard Box.

PADLOCKS.

CAST BRASS CASE, Hardened Brass Spring Shackle; 3 Flat Steel Nickel Plated Keys; 6 Secure Brass Levers.

Per Dozen

No. K50—KEEN KUTTER* 1¾ in. Case; Spacing of Shackle, Closed, ⅝x⅝ in., 36 CHANGES $6.90

No. K100—KEEN KUTTER* 2 in. Case; Spacing of Shackle Closed [illegible] in.; 36 CHANGES 8.00

No. K100E—KEEN KUTTER* 2 in. Case; Spacing of Shackles, Closed [illegible] in.; Keyed All Alike 9.00

Weight per Dozen about 6 lbs.

2 in. Case; Spacing of Shackle, Closed, ⅝x1 5/16 in.

Per Dozen

No. K101—KEEN KUTTER*; 36 CHANGES, with 9 in. BRIGHT STEEL PATENT LINK CHAIN $11.00

No. K101E—KEEN KUTTER*; Keyed All Alike With 9 in. BRIGHT STEEL PATENT LINK CHAIN 11.50

Weight per Dozen about 8 lbs.

One-half Dozen in a Cardboard Box.

No. K100 KEEN KUTTER* Padlock is an exact reproduction of our KEEN KUTTER Trade Mark.

THE CONSTRUCTION—The interior workings are of brass, excepting the spring, which is made of Heavy Phosphor Bronze; the Brass rivets are cast in the case and so arranged as to form a support for the case as well as binding posts, thus protecting the mechanism from a crushing force. A Lubricant of Graphite and Oil is used in each Lock, Insuring Positive and Easy Action of the Levers.

THE CASE—Is of polished cast brass. The Trade Mark on front of lock has a raised polished brass margin with the words KEEN KUTTER in raised, polished brass letters, relieved by red enameled matted background.

THE SHACKLE—The shackle is of hardened polished brass, with the words "E. C. Simmons" embossed on one side and St. Louis, U. S. A. on the other, and the interior construction is so arranged as to lock both front and back, making it almost impossible for the shackle to be forced open.

THE KEYS—Each Padlock is furnished with two flat steel nickel plated keys, showing a miniature perforation of the Trade Mark in the bow.

THE CHANGES—Locks are made regularly in 36 CHANGES, thus giving unusual security and making all locks different in a dozen.

PADLOCKS.

ANCHOR.

Cast Brass Self-locking Spring Shackle; Spacing of Shackle ⅞ x 1⅛ in.; 3 Brass Levers, 3 Brass Wards; Nose and Heel Locking; 2 Nickel Plated Steel Keys to Each Lock; 12 CHANGES.

No. 74—2¼ IN. BRASS CASE, POLISHED FINISH; Weight per dozen about 5 lbs.....Per Dozen, $9.50

LACLEDE.

CAST BRASS POLISHED CASE, with Raised Polished letters, Cast Brass Self-locking Spring Shackle; Spacing of Shackle, Closed, ⅞ex⅝ in.; Wrought Brass Inside Works; 6 Secure Levers; 2 Nickel Plated Flat Steel Keys to each Lock; 36 CHANGES.

Per Dozen

No. 1M—2¼ IN. CASE; Weight per dozen about 5 lbs.....$9.00

No. 10M—2¼ IN. CASE; With 9 IN. POLISHED STEEL CHAIN; Weight per dozen about 7 lbs..... 11.50

One-half Dozen in a Cardboard Box.

COMBINATION.

Malleable Iron Self-locking Spring Shackle, Nickel Plated; Brass Operating Knob, Nickel Plated; Raised Numerals on Dial, Nickel Plated, Brass Works; Numerals on Dial are Arranged as in Standard Clocks. Per Dozen

No. 24—2 IN. WROUGHT STEEL CASE, BLACK ENAMEL; Weight per dozen about 5½ lbs.....$17.00

One-twelfth Dozen in a Cardboard Box, with Directions for Operating

MASTER KEYED

Malleable Self-Locking Spring Shackle, Nickel Plated, Spacing of Shackle Closed 15/16 x 1⅛ in.; Brass Works and Rivets, Six Secure Levers, 4900 CHANGES; Master Keyed in 500 Changes. 2 Flat Steel Keys, Nickel Plated, with each Lock.

Per Dozen

No. 5231MK—2 IN. WROUGHT STEEL CASE, Black Enameled, with Raised Letters Polished; Wgt per dozen about 4 lbs.....$9.50

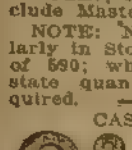
One-half Dozen in a Cardboard Box.

Each

No. EM—Extra Master Keys $0.90

NOTE: Price of Lock does not include Master Keys.

NOTE: No. 5231MK carried regularly in Stock, Master Keyed in sets of 500; when ordering, be sure to state quantity of Master Keys required.



CASH OR MAIL BOX.

Self-locking Bronze Spring Shackle; Spacing of Shackle, Closed, 7/16x½ in.; 2 Secure Brass Levers; 2 Cast Bronze Drilled Keys to each Lock; 6 CHANGES; Weight per dozen about 1 lb.

Per Dozen

No. 399—1 IN. CAST BRONZE METAL CASE $5.60

One Dozen in a Cardboard Box.

PADLOCKS.

Plain Cast Bronze Self-locking Spring Shackle; Spacing of Shackle, Closed, ¾ x 1⅛ in.; 5 Pin Tumblers; 2 Gold Plated German Silver Keys (No 2677 to each Lock. CHANGES UNLIMITED

Per Dozen

No. 879—3 IN STEEL CASE, BOWER-BARFF FINISH; Weight per dozen about 8½ lbs.....$25.00

One-twelfth Doz. in a Cardboard Box.

Steel Discs, Copper Plated Polished Self-locking Steel Spring Shackle, Copper Plated Polished; Spacing of Shackle, Closed, ¾ x ⅝ in.; 2 Wards; 2 Flat Steel Nickel Plated Keys No. 412 to each Lock; 6 CHANGES.

Per Dozen

No. 326—2¼ IN. CAST IRON CASE, Bower-Barff Finish; Weight per dozen about 7 lbs.....$10.00

HEAVY CAST IRON CASE, BOWER-BARFF RUSTLESS FINISH; Self-locking Cast Bronze Spring Shackle, Swings Both Ways; Bronze Inside Works; 2 Flat Steel Keys to each Lock.

Per Dozen

No. 803—1½ in.; 3 Pin Tumblers, 36 CHANGES; Spacing of Shackle, Closed, ⅝x⅝e in.; Weight per dozen about 4 lbs.....$13.70

No. 805—2 in.; 4 Pin Tumblers, 144 CHANGES; Spacing of Shackle, Closed, ¾x¾ in.; Weight per dozen about 7½ lbs..... 13.70

One-half Dozen in a Cardboard Box.

No. 805½—2 in.; 4 Pin Tumblers, Spacing of Shackle, Closed, ¾x¾ in., with 9 IN. BRONZE CHAIN; Weight per dozen about 8 lbs. 17.00

One-quarter Doz. in a Cardboard Box

Keys for Nos. 803, 805 and 805½ Padlocks cannot be duplicated by numbers, one of the original must be returned if possible, or if these are all lost the Lock itself must be returned for new Keys.

HEAVY CAST BRONZE CASE, with Polished Raised Surface Cast Bronze Polished Self-locking Spring Shackle; Cast Bronze Inside Works; 2 Nickel Plated Flat Steel Keys to each Lock, all different.

Per Dozen

No 813—1 in.; 3 Tumblers; 54 CHANGES; Spacing of Shackle, Closed, ⅝x⅞ in.; Weight per dozen about 2 lbs.....$16.50

No. 823—1¼ in.; 3 Tumblers, 54 CHANGES; Spacing of Shackle, Closed, ⅞x1 1/16 in.; Weight per dozen about 2¼ lbs..... 17.50

No. 833—1½ in.; 3 Tumblers; 54 CHANGES; Spacing of Shackle, Closed, 9/16x¾ in.; Weight per dozen about 4 lbs..... 20.00

No. 843—1¾ in.; 4 Tumblers; 82 CHANGES; Spacing of Shackle, Closed, ¾x⅞ in.; Weight per dozen about 5 lbs..... 23.50

No. 853—2 in.; 4 Tumblers, 144 CHANGES; Spacing of Shackle, Closed, ¾x1 in.; weight per dozen about 7 lbs..... 25.50

One-half Dozen in a Cardboard Box.

PADLOCKS.

Cast Bronze, Self-locking Spring Shackle; Spacing of Shackle, Closed, 13/16x1 in.; 4 Tumblers; 2 Flat Steel Keys to each Lock, 144 CHANGES.

Per Dozen

No. 853½—2 IN. HEAVY CAST BRONZE CASE; Raised Surfaces Buffed, with 9 in. Tinned Iron Chain; Weight per dozen about 8 lbs. $28.50

One-quarter Dozen in a Cardboard Box.

Self-locking Bright Steel Spring Shackle; Spacing of Shackle, Closed, 1 3/16x⅞ in.; 6 Pin Tumblers; 2 Paracentric Steel Keys; CHANGES UNLIMITED.

Per Dozen

‡No. 850—2 in. HEAVY CAST BRONZE CASE; Weight per dozen about 6 lbs...$39.00

One-half Dozen in a Cardboard Box.

HEAVY WROUGHT STEEL CASE, Bower-Barff Rustless Finish, Brass Caps, Brass Rivets, Self-Locking Forged Steel Spring Shackle; 2 Flat Steel Keys to each Lock.

Per Dozen

No. 8434—1½ in.; Spacing of Shackle, Closed, 9/16x⅝ in.; 3 Bronze Tumblers; 48 CHANGES; Weight per dozen about 3 lbs.....$14.00

No. 8454—2 in.; 4 Bronze Tumblers; 144 CHANGES; Spacing of Shackle, Closed, ¾x1 in.; Weight per dozen about 6 lbs..... 17.00

One-half Dozen in a Cardboard Box.

Note — Use no Oil in this Lock. To operate, put Key in Cylinder and pull down on Shackle or push up on Key.

Heavy Cast Bronze Polished Self-locking Spring Shackle, Swings both ways; Spacing of Shackle, Closed, 15/16x⅞ in.; Bronze Works; 4 Pin Tumblers; 2 Corrugated Steel Keys No. 106½ to each Lock; 144 CHANGES.

Per Dozen

No. 905½—2 IN. CAST IRON CASE, BOWER-BARFF RUSTLESS FINISH, With Polished Raised Surface; With 9 IN. BRONZE CHAIN; Weight per dozen about 9 lbs..$20.00

One-half Dozen in a Cardboard Box.

Keys for No. 905½ Yale Padlocks cannot be duplicated by numbers, one of the originals must be returned if possible, or if these are lost the Lock itself must be returned for New Keys.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

PADLOCKS.

FOR AUTOMOBILE TOOL BOX.

Hardened Steel Shackle, Nickel Plated; Spacing of Shackle, Closed, [illegible] Pin Tumblers. CHANGES UNLIMITED, 2 Parasemtric Steel Keys.

Per Dozen

No. 7011K—2⅜ IN. POLISHED CAST BRONZE CASE; Weight per dozen about 1⅝ lbs. $17.50

One-half Dozen in a Cardboard Box

(Used on Jail Doors and Other Places Requiring Great Security.)

‡PRISON LOCK

Self-locking Malleable Spring Shackle; Spacing of Shackle, Closed, 1¼x1¼ in.; 2 Flat Steel Ribbed Keys to each Lock; 6 Tumblers, 144 CHANGES

MALLEABLE IRON CASE, BOWER-BARFF RUSTLESS FINISH *Per Dozen*

‡No. 837—2½ In. Case; Weight per dozen about 21 lbs. $42.00

‡No. 838—2½ In. Case; WITH 3 IN. TINNED IRON CHAIN; Weight per dozen about 33 lbs. 54.00

One-twelfth Dozen in a Cardboard Box

SAFE.

GENUINE STAR

ALL MALLEABLE IRON, JAPANNED; 3 Malleable Iron Drilled Keys to each Lock, 2 CHANGES in a Dozen; Inter-locking Tumblers, Loose Shackle. Per Dozen

No. 210—3 in.; Spacing of Shackle, Closed, 13/16x⅝ in.; 4 Tumblers; Weight per doz. about 10 lbs. ..$11.60

No. 214—4 in.; Spacing of Shackle, Closed, 1x1¼ in.; 10 Tumblers, Weight per doz. about 24 lbs. .. 31.00

SWITCH LOCKS.

KEYS ALL ALIKE

Malleable Iron Tinned Self Locking Spring Shackle; Spacing of Shackle Closed, 1¼ x 1¼ in.; Malleable Iron Tinned Keyhole Drop with Spring; 1 Cast Bronze Drilled Key to each Lock; Tumblers Keyed Alike. Per Dozen

No. 1625—3 in. Wrought Steel Riveted Case, Tinned, with 11 in. Japanned Steel Niagara Chain; Wgt. per dozen about 14 lbs. $14.00

One-half Dozen in a Cardboard Box.

PADLOCKS.

SWITCH LOCKS.

KEYS ALL ALIKE.

Self-locking Malleable Sherardized Shackle, Spacing of Shackle, Closed ¾x1¼ in.; Cast Bronze Keyhole Drop, with Spring; 1 Tumbler; 1 Cast Bronze Key to each Lock, Keyed Alike.

Per Dozen

No. 1102K—2½ in. Cast Bronze Unpolished Case; with 11 in. Japanned Steel Niagara Chain; Weight per dozen about 12 lbs. ..... ($15.00)

One-half Dozen in a Cardboard Box.

2½ In. Gun Metal Finish, Brass Case, Spring Shackle; Spacing of Shackle, Closed, ⅞x1 in.; Spring Drop; 3 in. Polished Steel Chain

Can Furnish to Operate Under any Standard Switch Key used by any [illegible] Company or Name of Railroad Company Cast on Back of Lock Without Extra Cost.

Per Dozen

‡No. 838—Without Keys $16.00

‡No. 838 3K—With 24 Keys to the dozen 18.00

Weight per dozen about 18 lbs.

Extra Keys for No. 838 ..... 2.70

One-half Dozen in a Cardboard Box.

WROUGHT PADLOCKS.

Self Locking Wrought Iron Spring Shackle; Spacing of Shackle, Closed ⅞x1 3/16 in.; Revolving Key Pin, Double Chamber; Bridge Ward; Raised Brass Bushing, Front and Back; 2 Flat Steel Double Bitted Keys to each Lock; 6 CHANGES.

Per Dozen

No. 3044-2K—2¼ in. WROUGHT IRON CASE, JAPANNED; Weight per dozen about 5 lbs. $6.10

One-half Dozen in a Cardboard Box.

Heavy Wrought Iron Shackle, without Spring; Spacing of Shackle, Closed, ⅞x1⅛ in.; Wheel Side and Bridge Wards; Raised Solid Brass Bushing, Double Chamber; 2 Double Bitted Malleable Iron Drilled Keys to each Lock, 6 CHANGES.

Per Dozen

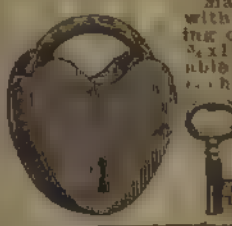
No. 3020-2K—2½ in. WROUGHT IRON CASE, JAPANNED; Weight per dozen about 6⅜ lbs. $5.00

One half Dozen in a Cardboard Box

WROUGHT PADLOCKS.

Self-Locking Malleable Spring Shackle; Spacing of Shackle, Closed, ⅞ x 3/16 in.; 1 Malleable Iron Key to each Lock; 4 CHANGES.

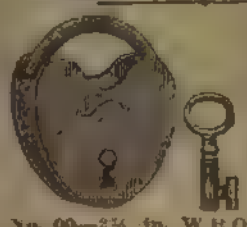
No. 0000—2 in. WROUGHT IRON CASE, JAPANNED; Weight per dozen about 2 lbs. ..Per Dozen, $1.50



Malleable Shackle, without Spring; Spacing of Shackle Closed ¾x1⅛ in.; 1 Malleable Iron Key to each Lock

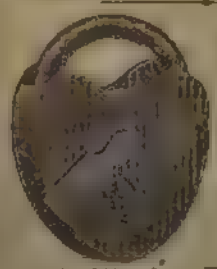
Per Dozen

No. 000—3⅛ in. WROUGHT IRON CASE, JAPANNED; Wgt. per doz. abt. 3 lbs. $1.80



Malleable Shackle, without Spring; Spacing of Shackle, Closed, 13/16x1⅛ in.; 1 Wheel Ward, Brass Key Hole Drop; 1 Malleable Iron Drilled Key to each Lock.

No. 00—2¾ in. WROUGHT IRON CASE, JAPANNED; Weight per dozen about 3 lbs. Per Dozen, $2.10



Wrought Iron Shackle, without Spring; Spacing of Shackle, Closed ⅞ x 1 in.; 1 Wheel Ward; 1 Malleable Iron Drilled Key to each Lock; Brass Key Hole Drop.

No. 1—3½ in. WROUGHT IRON CASE, JAPANNED; Weight per dozen about 4½ lbs. .Per Dozen, $2.50

Wrought Iron Shackle, without Spring; Spacing of Shackle Closed, 11/16 x 1-3/16 in.; Revolving Key Pin, Double Chamber; Bridge Ward, Raised Brass Bushings Front and Back; 2 Flat Steel Double Bitted Keys to each Lock; 6 CHANGES.

No. 3027-2K—3¼ in. WROUGHT IRON CASE, JAPANNED; Wgt. per dozen about 5 lbs. ....Per Dozen, $4.00

One-half Dozen in a Cardboard Box.

Heavy Wrought Iron Shackle, without Spring; Spacing of Shackle, Closed, 13/16 x1⅝ in.; Revolving Key Pin, Double Chamber; 1 Wheel and Bridge Ward; Raised Brass Bushings, Front and Back, 2 Flat Steel Double Bitted Keys to Each Lock; 6 CHANGES.

No. 3026-2K—3¼ in. WROUGHT IRON CASE, JAPANNED; Wgt. per dozen about 7 lbs. ...Per Dozen, $5.75

One Dozen in a Cardboard Box.

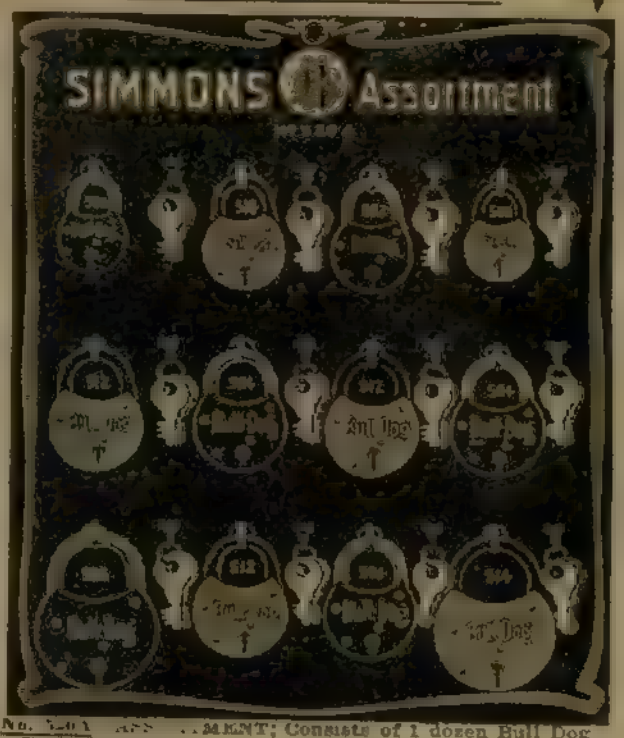
‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

PADLOCK ASSORTMENTS.

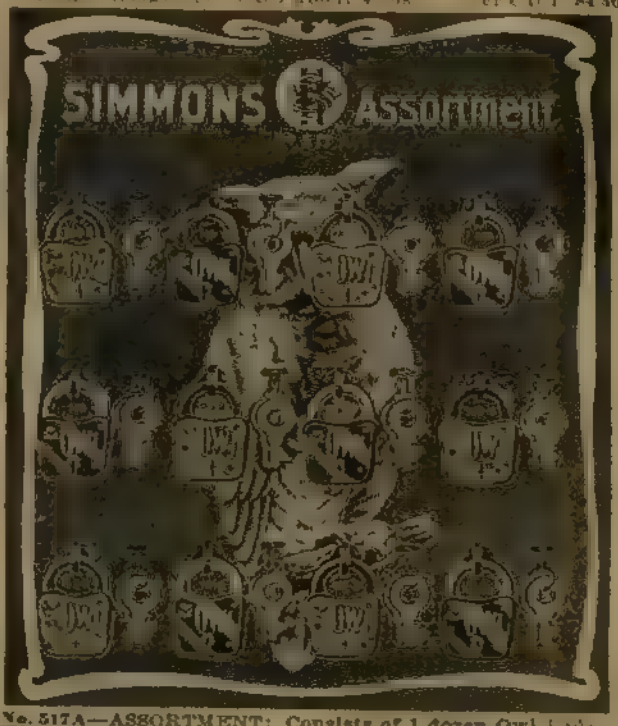
No. K100A—*KEEN KUTTER* ASSORTMENT: Consists of One Dozen *KEEN KUTTER* Padlocks, No. K100, Mounted on a Heavy Cardboard Display Stand 13x16 in., The Front is Beautifully Printed in Colors Each Card has an Eyelet by which it may be Hung up; Also a Wire Easel to Stand on Show Case. The Back is Printed with our *KEEN KUTTER* Trade Mark in its Original Colors. Each Lock is Fastened to Card with Ringed Staple. The Keys are so arranged they can be Unhooked and used to remove Locks; Weight per Card about 8 lbs. .....Per Card, **$9.00**

No. 125A—ASSORTMENT; Consists of One Dozen 2 in. Locks Assorted, 5/12 Dozen Brass Plated, 5/12 Dozen Japanned, 1/6 Dozen Plain Polished Steel All Mounted on Easel Back Display Card 17x13 in. With Maroon Background, Locks can be Readily Removed; 2 Keys to Each Lock; Weight per card about 5½ lbs. .....Per Card, **$4.80**

PADLOCK ASSORTMENTS.



No. 5[illegible]A—[illegible]ASSORTMENT; Consists of 1 dozen Bull Dog Padlocks mounted on a Heavy Cardboard Display Stand 13x16 in., Green Background with Gold Border; Each Card has an Eyelet by which it may be hung up, also a Wire Easel by which it may be made to Stand on Show Case. Each Lock covers its own Lithograph, which Identifies the Lock and Preserves the Appearance of the Card after the lock is Removed from Ring Staple; The Keys are so Arranged that they can be Unhooked and used to remove Locks. Weight per Card about 4 lbs. .....Per Card **$4.80**

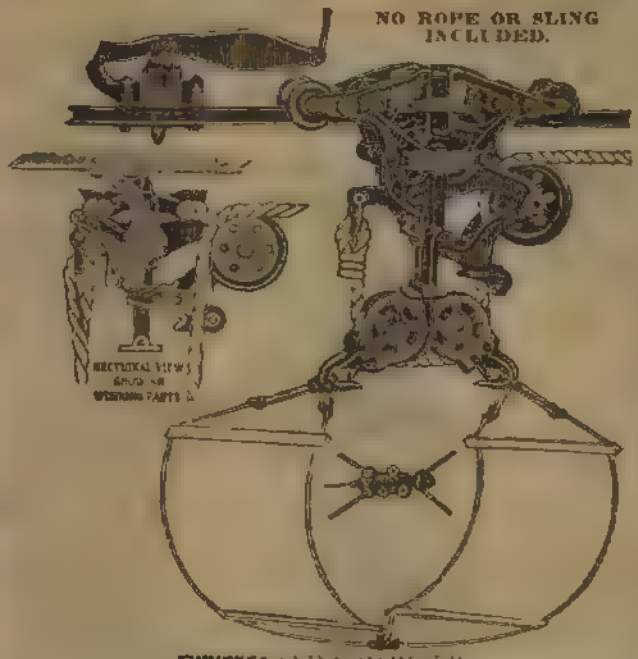


No. 517A—ASSORTMENT: Consists of 1 dozen Owl Padlocks mounted on a Heavy Cardboard Display Stand 13x16 in., Printed Dark Blue with Silver Border; Each Card has an Eyelet by which it may be Hung up, also a Wire Easel by which it may be made to Stand on Show Case; Each Lock covers its own Lithograph, which Identifies the Lock and Preserves the Appearance of the Card after the Lock has been Removed from the Ring Staples. The Keys are so arranged they can be Unhooked and used to remove Locks. Weight per Card about 3 lbs. .....Per Card, **$2.00**

One Card with Locks in a Cardboard Box.

HAY CARRIERS.

SIMMONS*



SIMMONS* SLING CARRIER.

Both Swivel and Reversible; Made Entirely of Malleable Iron, Painted Blue, Gold Bronzed Trimmed. All Track Wheels revolve on Large Steel Turned Bushings. The Lock is Absolutely Positive and WILL NOT CUT OR INJURE THE ROPE. The Carrier is made with Eight Track Travelers. This construction insures an Evenly Distributed Load over a long section of Track. The draft Wheel is 6 in. in Diameter and fitted with Extra Heavy Roller Bearings, thus making the Draft very light. The Bell or Lower Frame, which is cast in One Piece, Works on a Swivel of Large Diameter in the Upper Frame and makes the Carrier Readily Reversible. A Small Rope may be fastened to the Trip Block which will allow the operator to Trip the Carrier at any desired height; Carrier Adjustable to any size Rope from ¾ to 1 in.

Each

No. 60—SIMMONS*; FOR DOUBLE STEEL TRACK; Complete with Trip Block, Track Wheels 3¼ in. in Diameter; Tread ⅝ in.; Height over all 17 in.; Length 22 in.; Weight each about 50 lbs. $14.00

Packed Loose

Both Swivel and Reversible; Made Entirely of Malleable Iron, Painted Blue, Gold Bronzed Trimmed; All Wheels and Sheaves Revolve on evenly Turned Steel Bushings; Wide Flaring Mouth; Patented Hook on Lifting Pulley. Locking Mechanism is so arranged that the Lifting Pulleys Lock Directly on the Side or Frame of the Carrier and does not depend on separate Dogs or Lugs to hold the Load. With this Carrier the Fork can be carried within 7 in. of the Track.

Carry Full One Inch Rope.

No. 110—SIMMONS*; FOR DOUBLE RAIL STEEL TRACK; Complete with Trip Block; Diameter of Track Wheels 3¼ in.; Tread ⅝ in.; Height over all 18 in.; Length 14 in.; Weight each about 25 lbs. ..... Each, $6.80

No. 115—SIMMONS*; FOR 4x4 WOOD TRACK; Complete with Trip Block, Flanged Track Wheels, Diameter [illegible] Tread 1¼ in. Height over all 21 [illegible] Length 12¼ in.; Weight each about 30 lbs. .. Each, $6.80

Packed Loose.

No Rope Included.

HAY CARRIERS.

SIMMONS*

Both Swivel and Reversible; Made Entirely of Malleable Iron, Painted Blue, Gold Bronzed Trimmed; All Wheels and Sheaves Revolve on evenly Turned Steel Bushings, Wide Flaring Mouth; Patented Hook on Lifting Pulley. Locking Mechanism is so arranged that the Lifting Pulleys Lock Directly on the Side or Frame of the Carrier and does not depend on separate Dogs or Lugs to hold the Load. With this Carrier the Fork can be carried within 7 in. of the Track.

Carry Full One Inch Rope.

Lifting Pulley for Nos. 110B, 110 and 115 Carriers showing hub on axle which engages lock in Carrier.

No. 110B—SIMMONS*; FOR SINGLE RAIL STEEL TRACK; Complete with Trip Block; Diameter of Track Wheels 3¼ in.; Tread ⅝ in.; Height over all 18 in.; Length 14 in.; Weight each about 25 lbs. ..... Each, $6.80

Packed Loose.

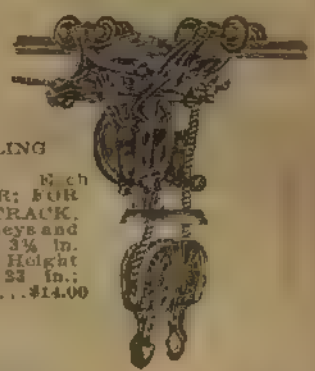
No Rope Included.

Swivel and Reversible Carriers; Made Entirely of Malleable Iron, Painted Blue, Gold Bronzed Trimmed. All Track Travelers and Sheaves Revolve on Turned Steel Bushings; Carrier can not pass the Bumper or Trip Block while in operation and is Easily and Quickly Reversed from the Floor. Two Parts used in Locking Device which are Absolutely Positive in their action; Carry Full 1 in. Rope.

Each

No. 5—SIMMONS*, FOR EITHER DOUBLE OR SINGLE STEEL RAIL. Complete with Lifting Pulley No. 40% and Trip Block; Length of Carrier 14 in.; Height over all 20 in.; Weight each about 25 lbs $6.80

Cut shows Lifting or Fork Pulley on No. 5 Carrier.



SIMMONS* FORK OR SLING CARRIER

Each

No. 150—SIMMONS* CARRIER; FOR DOUBLE ANGLE STEEL TRACK. Complete with Lifting Pulleys and Trip Block; Track Wheels 3¼ in. in Diameter; Tread ⅝ in.; Height over all 17 in.; Length 23 in.; Weight each about 63 lbs. $14.00

Diameter of Track Wheels 3¼ in.; For ⅝ in. Cable or Rod. The Bumper or Trip Block is so constructed that when placed on the Cable it is Held in place by Two Sheaves, but is free to follow any twists of the Cable and will Lock and Unlock the Carrier under all conditions; Length 18 in.; Height 18 in.

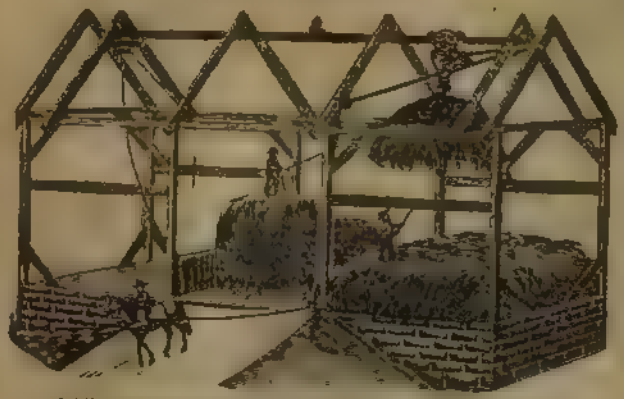
Each

No. 70—SIMMONS* CABLE OR ROD CARRIER. Weight each about 25 lbs. $6.80

Packed Loose.

No Rope or Cable Included.

DIRECTIONS FOR RIGGING SIMMONS'* HAY CARRIERS.



DIRECTIONS FOR REVERSING ALL SIMMONS* SWIVEL CARRIERS.

Pull the carrier to stop block or bumper, letting the lifting pulley drop out of carrier. Take rope out of pulley at end of barn and while standing on the floor beneath the carrier give the rope a little slack from the hand to the carrier and give it a throw to obtain a half turn in the swivel. Re-thread the pulleys in the end of the barn you wish to operate in, then the carrier is ready for operation.

Before pulling large rope out of pulleys tie a small rope to the end of it so that the small rope will be through pulleys for pulling up the large rope the next reverse. See cut above.

DIRECTIONS FOR PUTTING UP TRACK.

Attach Track to every rafter by means of Track Eyes and Rafter Irons. Place Stop Block or Bumper directly over unloading place, so as to prevent Carrier from running off Track, bolt Carrier Stop or Pulley Fastener to end of the Track. Tie a Rope from one Rafter to the other, letting Rope hang 4 or 5 in. under the Track, or nail a board to the rafters close to and over it.

MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT FOR DIFFERENT LENGTH BARNS.

FOR A 40 FT. BARN—One Carrier, 40 ft. Steel Track, 21 Hanging Hooks, 21 Rafter Brackets, 5 Knot-Passing Pulleys, 1 D. H. Fork, 6 Floor Hooks, 110 ft. ⅝ in. Manila Rope, 60 ft. ⅝ in. Check Rope, 40 ft. ⅝ in. Reverse Rope.

FOR A 50 FT. BARN—One Carrier, 50 ft. Steel Track, 25 Hanging Hooks, 25 Rafter Brackets, 5 Knot-Passing Pulleys, 6 Floor Hooks, 130 ft. ⅝ in. Manila Rope, 55 ft. ⅝ in. Check Rope, 50 ft. ⅝ in. Reverse Rope.

FOR A 60 FT. BARN—One Carrier, 60 ft. Steel Track, 31 Hanging Hooks, 31 Rafter Brackets, 6 Knot-Passing Pulleys, 6 Floor Hooks, 150 ft. ⅝ in. Manila Rope, 60 ft. ⅝ in. Check Rope, 60 ft. ⅝ in. Reverse Rope.

Different Length of Barn will use Track, Hanging Hooks and Rope in same ratio as above.

If required to take Hay in at end of barn and have Rope pass down at far end of horse, same amount of Draft Rope. If Draft Rope be returned to same end of Barn and then down, requires about one-fourth more of Draft Rope.

HAY FORKS.

DOUBLE HARPOON SPEAR POINT

Steel, Japanned; Head 17 in. Wide; Riveted Ring 1⅝ in. in Diameter; Harpoon Points 3½ in. Long; Malleable Iron Trip Levers 10⅝ in. Long, Two Center Braces Riveted to Frame 17 in. Wide.

HARRIS Double Harpoon,

Nos.	300	301
Height over all, in.	36	41½
Length of Tines, in.	24	29¾
Width over all, in.	13½	17
Weight each about, lbs.	16	20
Each	$1 80	2 20

ALFALFA DOUBLE HARPOON SPEAR POINT.

Steel, Japanned, Head 23¼ in. Wide; Welded Ring 2 in. in Diameter; Harpoon Points 4 in. Long; Malleable Iron Trip Levers 13 in. Long; Two Center Braces Riveted to Frame 23½ in. Wide. Height over all 47 in., Length of Tines 32 in.; Width over all 27 in.

Each

No. 302—Wgt. each about 22 lbs. ..$3.80

Packed Loose

HAY FORKS.

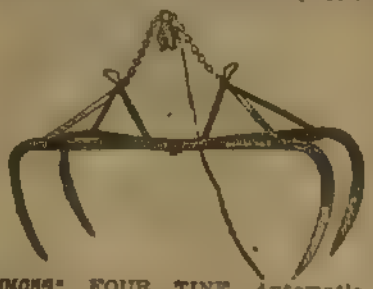
NELLIS'; SINGLE HARPOON PATTERN.

NELLIS Fork; Spring Steel Lock Lever; Painted Black, Trimmed in Gold Bronze; Sets with One Lever and Locks either Open or Closed; Length over all 24 in.

Each

No. 303—Weight each about 11 lbs. $3.00

Spring Steel; Japanned; Points of Tines Polished; Grip Handle on each side for convenience in setting or placing. Securely Braced thus making it rigid and strong; Malleable Trip Lock and Tines connected by Coil Chains.



Each

No. 309—SIMMONS* FOUR TINE Automatic Grapple Hay Fork; Length between Tines, Open, 60 in.; Height, Open, 29 in.; Height, Closed, 36 in.; Width Closed, 15 in.; Weight each about 42 lbs. $7.50

Each

No. 311—SIMMONS* SIX TINE Automatic Grapple Hay Fork; Length between Tines, Open, 60 in.; Height, Open, 24 in.; Height, Closed, 36 in.; Width, Closed, 20 in.; Weight each about 65 lbs. $9.50

Packed Loose.

SLING PULLEYS.

SIMMONS*

SIMMONS* REVERSIBLE SLING PULLEY.

Malleable Iron Flanged Edge Concaved Frame, with Hook Riveted together; Malleable Iron Hook For Sling; Reversible Tripping Device Extending from Either Side, with Two 1x2 in. Rope Sheaves; Aluminum Bronzed Finish.

Frame 14½ in. Long, 8½ in. Wide; Tripping Device 8 in. Long, 3¾ in. Wide; Sling Hook 4 in. Long Adapted for Use on any Carrier for Unloading Corn, Fodder, Sheaf Wheat, Hay, etc., and Especially adapted for the Use of Adustable Slings Nos. 450 and 451; Can be Used Either Side Up; Length over all 17¼ in.

Each

No. 1052—SIMMONS*; Weight each about 11 lbs. $3.50

Packed Loose

Per Pair

No. 453—SIMMONS*; Malleable Iron, Aluminum Finish; For use on SIMMONS* No. 5 Carrier; Height over all 12 in.; Weight per pair about 21 lbs. $2.70

SLINGS.

SIMMONS*

CALIFORNIA SLINGS.

½ in. Manila Ropes, attached to Wood Cross Bars by Slot and Bolt, which allows the Bar to be shifted where desired; Four Extra Side Ropes as well as two Extra Center Ropes are used, thus enabling the Sling to carry Short or Fine Hay. Can be adjusted to any size Rack desired; Plain Malleable Lock.

Each

No. 451—SIMMONS*: With 6-ft. Oak Cross Bars, 1¾ in. Thick and 1¾ in. Wide. Length 22 ft.; Weight each about 25 lbs. $5.00

CENTER TRIP ADJUSTABLE.

½ in. Manila Ropes, attached to Wood Cross Bars by Slot and Bolt, which allows the Bar to be shifted where desired; the Center Trip is Plain Malleable Iron; The Slings are all Adjustable to any sized Rack.

Each

No. 456—SIMMONS*: With four 4-ft. Oak Cross Bars 1¾ in. Thick and 1¾ in. Wide, Length about 20 ft., Weight each about 19 lbs. $3.50

Three in a Bundle.

CENTER TRIP ADJUSTABLE.

One-half Inch Manila Ropes, Loose Twist (Will not Gnarl or Kink), Attached to Wood Cross Bars by a Hook Bolt, which passes around the Rope and through the Bar, can be shifted to any point desired. The Self-conforming Malleable Iron Lock cannot be set wrong and trips easily; Adjustable "Take-up" at each End, which enables the user to adjust the Length of the Sling from 17 to 20 ft., as desired.

Each

No. 450½—SIMMONS*: With Four 5 ft. Ash Wood Cross Bars 1⅝ in. Thick, 1⅝ in. Wide, Length over all 20 ft., Width over all 5 ft.; Weight each about 24 lbs. ..$4.50

One in a Bundle.

HAY CARRIER TRACK.

SINGLE STEEL TRACK, 2 in. Wide on the Tread; in 6, 8 and 12 ft. Lengths; Complete with Lock Splices. Splices made of Malleable Iron

Per Foot

No. 7—SIMMONS*. Weight per ft. about 1¾ lbs. $0.20

DOUBLE ANGLE STEEL TRACK, 2 in. Wide on the Tread. In 6, 8 and 12 ft. Lengths, Complete with Splices or Couplings; Weight of Splice 1 lb.

Per Foot

No. 6—SIMMONS*: Wgt. per foot about 2 lbs. $0.20

COUPLING OR SPLICES FOR HAY CARRIER TRACK.

Per Dozen

No. 7-C—SIMMONS*: Plain Malleable Iron, For No. 7 Single Steel Track $2.20

No. 6-C—SIMMONS*: Plain Malleable Iron, For No. 6 Double Steel Track 2.20

Weight per Dozen about 10 lbs.

Packed Loose.

CABLE CLAMPS.

SIMMONS* Cable Clamps are made of Plain Malleable Iron, with Bolts; Will fit ⅜, ⅝ or ¾ in. Cable.

Per Dozen

No. 500—Length 1¾ in.; Width 2¼ in.; Weight per dozen about 9 lbs. $3.00

Per Dozen

No. 501—Length 3 in., Width 2 in.; Weight per dozen about 13 lbs. $3.70

Packed Loose.

TRACK HANGING HOOKS AND EYES.

Plain Malleable Iron Track Eye; Length over all 5 in.; Width 1 in.; Can be used at any point on Track.

Per Dozen

No. 600—SIMMONS*: For Single Rail Track No. 7; Weight per dozen about 6 lbs. $1.60

Double Angle Track Eye; Plain Malleable Iron; Used on Track at any point; Length 5⅛ in.

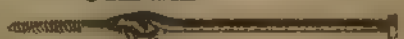
Per Dozen

No. 601—SIMMONS*; For No. 6 Double Track. Weight per dozen about 4 lbs. $1.40

½ in. Round Wrought Iron Wood Track Hanging Hook; Complete with Nut; Length over all 14 in.

Per Dozen

No. 602—SIMMONS*; Weight per dozen about 12 lbs. ..$1.40



Jointed Wood Track Hanger Eye with Screw End. Threaded End ½ in. in Diameter, Complete with Nut, ½ in. Stock, Length of Screw Eye 6½ in. Length of Hook 12 in.

Per Dozen

No. 603—SIMMONS*: Weight per dozen about 17 lbs. $2.10

Double Angle Track Eye, Plain Malleable Iron, with Open Eye; Used on Track at Any Point. Length 5½ in.

Per Dozen

No. 604—SIMMONS*; For No. 6 Double Track; Weight per dozen about 5 lbs. $1.40

Packed Loose.

FLOOR HOOKS.

Plain Wrought Steel Floor Hooks for use with Hay Fork Pulleys.

Per Dozen

No. 1—⅝ IN. IN DIAMETER, Length over all 7½ in.; Length of Screw 3½ in.; Weight per dozen about 8½ lbs. $1.50

No. 2—¾ IN. IN DIAMETER, Length over all 8½ in., Length of Screw 3¾ in.; Weight per dozen about 14 lbs. 1.80

Packed Loose.

TRIP OR BUMPER.

Plain Malleable Iron Trip or Bumper, for either No. 6 Double or No. 7 Single Track

Per Dozen

No. 187—SIMMONS*; Weight per dozen about 10 lbs. $1.50

NOTE—When used for No. 6 Track, Rivets are not needed; and when used for No. 7 Track, Bolts are not needed.

Packed Loose.

RAFTER BRACKETS.

PLAIN MALLEABLE IRON; Used in connection with Hanging Hooks in putting up either Wood or Iron Track; Length over all 7 in.

Per Dozen

No. 438—Weight per doz. abt. 4½ lbs. ..$0.70

Packed Loose.

ROPE HITCHES.

Malleable Iron, Japanned Swivel Rope Hitch; A very Convenient Device for taking up and Letting out Rope; It does away with the Untying of Hard Knots and Wasting of Rope by Cutting Knots; Length 8 in.

Per Dozen

No. 158—SIMMONS*; Weight per dozen about 20 lbs. ..$3.50

Packed Loose.

WIRE CABLE.

GALVANIZED STEEL WIRE CABLE

½ in in Diameter; for SIMMONS' Hay Carrier No. 70; composed of Seven No. 8 Wires; Breaking Strain about 8500 lbs.

Per 100 Feet

No. 200—Weight per 100 ft. about 52 lbs.....$3.50

GALVANIZED IRON WIRE ROPE

⅝ in in Diameter; for SIMMONS' Cable or Rod Truck Carrier; Six Strands each, composed of Seven No. 16 Steel Wires, laid around a Hemp Center. Breaking Strain 11,000 lbs.

Per 100 Feet

No. 300—Weight per 100 ft. about 65 lbs.....$11.00

In Coils any Length Desired.

HAY FORK PULLEYS.

Hardwood Wheel 1½ in. Thick; DIAMETER 6 IN.; Heavy Cast Iron Japanned Frame 3⅜ in. Wide; Height over all 11½ in.; Sheave revolves on Self-oiling Hollow Pin.

Per Dozen

No. 122—NEY'S KNOT PASSING; Weight per dozen about 40 lbs.....$5.00

Hardwood Wheels 1½ in. Thick; DIAMETER 6 IN.; Japanned Cast Iron Frame, One Piece. Casing 2⅜ in. Wide; Height over all 11 in. Sheave revolves on ⅝ in. Pin

Per Dozen

No. 108—NEY'S; Weight per dozen about 36 lbs.....$4.50

Steel Frame, Japanned; Hardwood Wheel 1½ in. Thick; DIAMETER 6 IN.; Extreme Width 3¾ in.; Height over all 11 in.; Wheel revolves on 1 in. Iron Bushing.

Per Dozen

No. 110—NEY'S KNOT PASSING; Weight per dozen about 35 lbs.....$4.50

Hardwood Wheel 1⅛ in. Thick, DIAMETER 6 IN. Cast Iron Frame 2⅛ in. Wide; Height over all 10 in.; Revolves on 1⅛ in. Hollow Pin.

Per Dozen

No. 114—NEY'S Self-oiling Pulley. Weight per dozen about 38 lbs.....$4.00

Steel Frame Pulley; Hardwood Wheel 1⅛ in. Thick; DIAMETER 6 IN.; Height over all 10 in.; Width of Frame 2⅛ in.; Wheel revolves on 1 in. Iron Bushing.

Per Dozen

No. 109—NEY'S; Weight per dozen about 35 lbs.....$4.00

Wood Frame Pulley; Hardwood Wheel 1½ in. Thick; DIAMETER 4¾ IN. Wood Frame, Riveted, 3⅜ in. Wide; Steel Strap.

Per Dozen

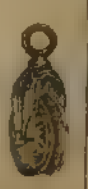
No. 111—NEY'S Reed Pattern; Weight per dozen about 35 lbs.....$4.50

Steel Frame, Iron Wheel 1½ in. Thick; DIAMETER 6 IN. Height over all 10 in.; Width of Frame 2⅛ in.; Wheel revolves on ⅝ in. Pin.

Per Dozen

No. 116—NEY'S; Weight per dozen about 35 lbs.....$4.00

Cast Iron Frame; Cast Iron Wheel 1½ in. Thick; DIAMETER 6 IN.; Shell 2⅛ in. Wide; Height over all 9 in.; Wheel revolves on ⅝ in. Pin



Per Dozen

No. 115—NEY'S; Weight per dozen about 40 lbs.....$4.50

Packed Loose in Barrels.

HAY FORK PULLEYS.

Japanned Cast Iron Frame; Cast Iron Wheel 1½ in. Thick; DIAMETER 5 IN.; Shell 2½ in. Wide; Height over all 8 in.; Wheel revolves on ⅝ in. Pin.

Per Dozen

No. 112—NEY'S; Weight per dozen about 35 lbs.....$4.00

Japanned Steel Casing, Self-oiling; Edges of Shell rolled out to prevent wear of Rope; Wheel 1½ in. Thick; DIAMETER 5 IN.; Shell 3½ in. Wide; Height over all 8¾ in.; Sheave turns on Pin.

Per Dozen

No. 10—SQUARE; Weight per dozen about 36 lbs.....$4.50

Standard Cast Iron Sheave; Cast Iron Frame; Japanned.

Wheels 1⅝ in. Thick; DIAMETER 4 IN.; Casing 2 in. Wide; Height over all 8 in.; Sheave turns on Pin.

Per Dozen

No. 1—STANDARD; Weight per dozen about 24 lbs.....$3.20

No. 1 is sometimes used as a Well Wheel.

HAY FORK PULLEY SHEAVES.

Per Dozen

No. 609—WOOD SHEAVES ONLY; 6 in. in Diameter 1¼ in. Thick; Weight per dozen about 12 lbs.....$1.70

Packed Loose in Barrels.

HAY RACK BRACKETS

AND CLAMPS.

Set Consists of 8 Steel Clamps, with Nuts, 8 Flanged Malleable Iron Center Brackets, One-piece Clamp, ⅝ in. Round Steel; Inside Width 2¾ in., With Stamped Steel Top and Bottom Washer Plates.

Per Dozen Sets

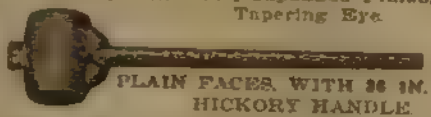
No. 1—STANDARD, 14 IN. LONG. Weight per dozen sets about 156 lbs.....$17.00

No. 2—STANDARD, 16 IN. LONG; Weight per dozen sets about 180 lbs.....$18.20

One Set in a Wood Box.

POST MAULS.

Cast Iron Head, Japanned Finish, with Oval Tapering Eye



PLAIN FACES, WITH 36 IN. No. 1 HICKORY HANDLE

Nos.	2H10	2H13	2H16	2H18
Weight of Head, lbs.	10	13	16	18
Length of Head, in.	6	5¾	6⅞	6
Diameter of Face, in	3⅝	4	4	4⅝
Length over all, in	36	36	36	36
Weight per dozen about, lbs.	145	184	220	244
Per dozen	$7.70	8.50	11.00	12.00

PLAIN FACES, WITHOUT HANDLE.

Nos.	210	213	216	218
Weight each, lbs	10	13	16	18
Length, in.	6	5¾	6⅞	6
Diameter of Face, in	3⅝	4	4	4⅝
Per pound	$0.65	.65	.65	.65

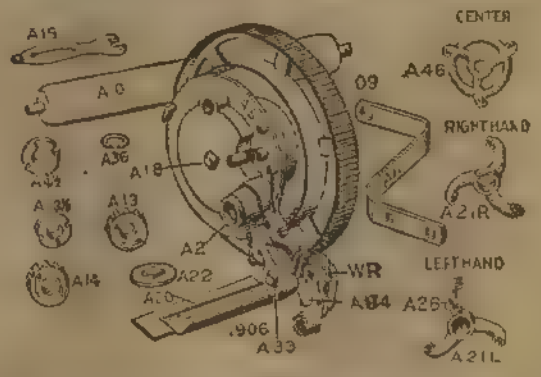
WITH INSERTED HICKORY FACES, and 36 in. No. 3 Hickory Handle.

Nos.	410	412	414	416
Weight of Head, lbs.	10	12	14	16
Length of Head, in.	6¼	6¼	6⅞	7¼
Diameter of Face, in	3¼	3¼	3¼	4
Length over all, in	36	36	36	36
Weight per dozen about, lbs.	170	190	198	190
Per dozen	$8.20	9.80	11.50	12.50

Packed Loose

EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER LAWN MOWERS (1909 MODEL).



Style WL6—LOW WHEEL, Plain Bearing.

	Each
No. 00—Drive Wheel, Cast Iron, Both Alike	$1.00
‡No. A2—Phosphor Bronze Journal Bearings, Both Alike	.30
No. WR—Right Hand Roller Bracket, Malleable	.10
No. WL—Left Hand Roller Bracket, Malleable	.10
No. A5—Right Hand Side Plate, Cast	1.25
No. A4—Left Hand Side Plate, Cast	1.25
No. 1906—Straight Knife, Cast Bar.	

Inches	12	14	16	18
Each	$0.70	.76	.86	.96

‡No. A20—Straight Knife, Steel.				
Inches	12	14	16	18
Each	$0.50	.56	.66	.66

‡No. A17—Spiral Cutter (Malleable Spiders, and Three Spiral Steel Blades) Complete.				
Inches	12	14	16	18
Each	$3.50	4.00	4.50	5.00

‡No. A180—Spiral Cutter Blades, Steel.				
Inches	12	14	16	18
Each	$0.56	.56	.66	.66

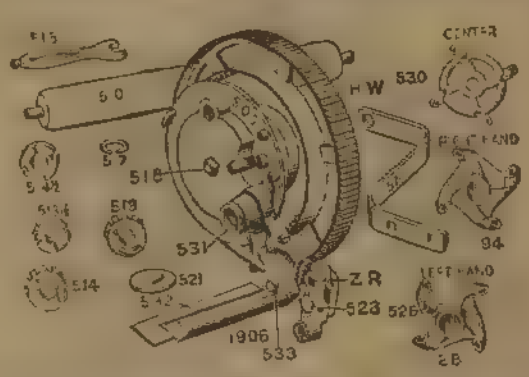
‡No. A10—Wood Roller.				
Inches	12	14	16	18
Each	$0.50	.56	.66	.70

‡No. A11—Handle Irons, Wrought, Both Alike.				
Inches	12	14	16	18
Each	$0.30	.36	.36	.40

	Each
No. A13—Left Hand Pinion, Cast	$0.20
No. A13½—Right Hand Ratchet Clutch, Cast	.10
No. A14—Right Hand Pinion, Cast	.30
No. A14½—Left Hand Ratchet Clutch, Cast	.10
No. A15—Wrench, Malleable	.05
‡No. A18—Drive Wheel Bolt	.10
No. A19—Cotter, for End of Cutter Shaft	.05
‡No. A21L—Left Hand Spider, Malleable	.50
‡No. A21R—Right Hand Spider, Malleable	.50
‡No. A23—Drive Wheel Washer, Steel	.05
‡No. A24—Bolt, for Handle Iron	.08
‡No. A25—Wood Handle, Complete	1.00
‡No. A26—Set Screws, Steel, for Spider	.10
No. A33—Adjusting Screw, for Knife Bar	.10
‡No. A34—Roller Bracket Bolt	.08
‡No. A35—Bolt, for End of Knife Bar	.10
‡No. A36—Grinding Wire, Steel	.02
‡No. A37—Cone, for End of Knife Bar	.10
‡No. A38—Set Screw and Nut for Journal Bar	.09
‡No. A39—Set Screw, for Shaft Collar	.05
‡No. A40—Center Spider, Malleable	.20
No. A48—Pin, Steel, for Ratchet Clutch	.05
‡No. A56—Lower Blade Screw	.05

EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER LAWN MOWERS (1909 MODEL).



Style WH9—HIGH WHEEL, Plain Pinion Bearing.

	Each
‡No. A555—Shaft Collar	$0.10
No. HW—Drive Wheel, Cast, Both Alike	1.00
‡No. 531—Phosphor Bronze Journal Bearings, Both Alike	.50
No. 7R—Right Hand Roller Bracket, Malleable	.10
No. 7L—Left Hand Roller Bracket, Malleable	.10
No. 505—Right Hand Side Plate, Cast	1.50
No. 504—Left Hand Side Plate, Cast	1.50
No. 1906—Straight Knife, Cast Bar.	

Inches	14	16	18	20
Each	$0.76	.86	.96	1.06

No. 532—Straight Knife, Steel				
Inches	14	16	18	20
Each	$0.56	.66	.86	.70

‡No. 508—Spiral Cutter (Spiders, Malleable, and Four Spiral Blades, Steel) Complete				
Inches	14	16	18	20
Each	$5.50	6.00	6.50	7.00

‡No. 509—Spiral Cutter Blades, Steel.				
Inches	14	16	18	20
Each	$0.50	.60	.66	.70

‡No. 510—Wood Roller.				
Inches	14	16	18	20
Each	$0.56	.66	.76	.80

‡No. 511—Handle Irons, Wrought, Both Alike.				
Inches	15	16	18	20
Each	$0.36	.36	.40	.46

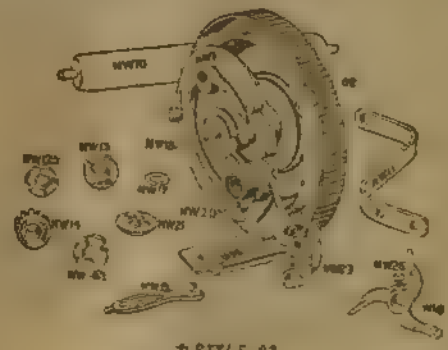
	Each
‡No. 28—Left Hand Spider, Malleable	$0.50
‡No. 29—Right Hand Spider, Malleable	.50
No. 513—Left Hand Pinion, Cast	.50
No. 513½—Right Hand Ratchet Clutch, Cast	.20
No. 514—Right Hand Pinion, Cast	.50
No. 514½—Left Hand Ratchet Clutch, Cast	.20
No. 515—Wrench, Malleable	.05
‡No. 517—Grinding Wire, Steel	.02
‡No. 518—Drive Wheel Bolt	.10
No. 519—Cotter, Steel for End of Cutter Shaft	.05
‡No. 520—Set Screw, Steel, and Nut for Journal Bar	.08
‡No. 523—Drive Wheel Washer, Steel	.05
‡No. 525—Roller Bracket Bolt	.10
‡No. 524—Bolt, for Handle Iron	.08
‡No. 528—Set Screw, Steel, for Spider	.10
‡No. 530—Center Spider, Malleable	.20
No. 534—Adjusting Screw for Straight Knife Bar	.10
‡No. 534—Lower Blade Screw	.05
‡No. 555—Set Screw, for Shaft Collar	.05
No. 540—Pin, Steel, for Ratchet Clutch	.05
‡No. 550—Wood Handle, Complete	1.00
‡No. 555—Shaft Collar	.10

In ordering parts always give the Number and Name of the Part wanted, the width of Cut of Machine, and the Year in which it was Made, or the Style Number (the Width is cast in Raised Figures on the Knife Bar, the Style Number appears on the Lower Wheel, do not give Serial Letters these will not avail to Buyer). Most of these Parts Weigh Less than 4 lbs, and can be furnished by Mail or Express at a slight Cost

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER LOW WHEEL, PLAIN BEARING LAWN MOWERS.



‡STYLE 92.

	Each
‡No 92 —Drive Wheel, Cast Iron, Both Alike	$0.85
‡No W 2 —Phosphor Bronze Journal Bearings, Both Alike	.30
‡No NW 4—Roller Bracket, Malleable, Both Alike	.16
‡No NW 5—Right Hand Side Plate, Cast	1.20
‡No. NW 6—Left Hand Side Plate, Cast	1.20
‡No 1855—Straight Steel Knife and Cast Bar	

Inches	10	12	14	16	18
Each	$1.00	1.20	1.30	1.40	1.50

‡No NW 8—Spiral Cutter (Malleable Spiders, and Three Spiral Steel Blades) complete

Inches	10	12	14	16	18
Each	$3.30	3.50	4.50	5.30	5.50

‡No NW 9—Spiral Cutter Blades, Steel.

Inches	10	12	14	16	18
Each	$0.40	.50	.56	.66	.66

‡No NW 10—Wood Roller.

Inches	10	12	14	16	18
Each	$0.36	.46	.56	.66	.76

‡No NW 11—Handle Irons, Wrought, Both Alike.

Inches	10	12	14	16	18
Each	$0.30	.36	.36	.36	.40

	Each
‡No NW 13—Left Hand Pinion, Cast	$0.30
‡No NW 14 Right Hand Pinion, Cast	.30
‡No NW 15 Right Hand Ratchet Clutch, Cast	.16
‡No. NW 16½—Left Hand Ratchet Clutch, Cast	.16
‡No. NW 15—Wrench, Malleable	.06
‡No NW 16—Spiral Cutter Spider, Malleable, (state if for center or which end)	.50
‡No NW 17—Grinding Ware, Steel	.02
‡No NW 18—Drive Wheel Bolt	.10
‡No NW 19—Cutter, Steel, for end of Cutter Shaft	.06
‡No NW 20—Set Screw for Nut and Journal Box	.08
‡No NW 21—Drive Wheel Washer, Steel	.06
‡No NW 23—Roller Bracket Bolt	.08
‡No NW 24—Bolt for Handle Iron	.08
‡No NW 26—Set Screws, Steel, for Spider	.15
‡No NW 43—Pin Steel for Ratchet Clutch	.06
‡No NW 50—Wood Handle, complete	1.00

‡EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER HIGH WHEEL, PLAIN BEARING LAWN MOWERS

‡STYLE NW 1

	Each
‡No NW 1 —Drive Wheel, Cast, Both Alike	$1.00
‡No NW 2 —Phosphor Bronze Journal Bearings, Both Alike	.50
‡No. NW 4 —Roller Bracket, Malleable, Both Alike	.18
‡No. NW 55—Right Hand Side Plate, Cast	1.50
‡No NW 56 Left Hand Side Plate, Cast	1.50
‡No NW 7 —Straight Steel Knife and Cast Bar	

Inches	14	16	18	20
Each	$1.56	1.70	2.00	2.20

‡No NW 8—Spiral Cutter (Spiders, Malleable, and Four Spiral Blades Steel) complete

Inches	14	16	18	20
Each	$5.50	6.00	6.50	7.00

‡No NW 9—Spiral Cutter Blades, Steel.

Inches	14	16	18	20
Each	$0.56	.60	.66	.70

‡No. NW 10—Wood Roller

Inches	14	16	18	20
Each	$0.56	.66	.76	.80

‡No NW 11—Handle Irons, Wrought, Both Alike

Inches	14	16	18	20
Each	$0.36	.36	.40	.46

	Each
‡No. NW 14—Right Hand Pinion, Cast	$0.50
‡No NW 13 Left Hand Pinion, Cast	.50
‡No NW 15 Right Hand Ratchet Clutch, Cast	.26
‡No. NW 16½—Left Hand Ratchet Clutch, Cast	.26
‡No. NW 15—Wrench, Malleable	.06
‡No NW 17—Grinding Ware, Steel	.02
‡No NW 18 Drive Wheel Bolt	.10
‡No. NW 19—Cutter, Steel, for end of Cutter Shaft	.06
‡No NW 20 Set Screw, Steel and Nut for Journal Box	.08
‡No. NW 21 Drive Wheel Washer, Steel	.06
‡No NW 22 Set Screw for Front Cross Bar	.08
‡No NW 23—Roller Bracket Bolt	.10
‡No NW 24 Bolt for Handle Iron	.08
‡No NW 25—Bolt for Straight Knife Bar	.08
‡No NW 26 Set Screw, Steel, for Spider	.10
‡No. NW 28—Left Hand Spider, Malleable	.50
‡No. NW 29—Right Hand Spider, Malleable	.50
‡No NW 30 Center Spider, Malleable	.26
‡No. NW 43 Pin Steel, for Ratchet Clutch	.06
‡No NW 50 Wood Handle, complete	1.00

In ordering Parts always give the Number and Name of the Part wanted, the width of Cut of Machine, and the year in which it was Made, or the Style Number (the Width of cut is also stamped or given on the Knife Bar On Mowers made prior to 1898, the Year and Date of Manufacture is cast on the Side Plate On those made in 1898 and Later the Style Number, which takes the place of the Year Date, is cast on the Drive Wheel Hub and gives Patent Dates, these will not identify the Mowers Most of these Parts Weigh less than 4 lbs and can be sent by mail or express at slight cost.

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern

Our shipping facilities are unequaled

We invite correspondence

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act

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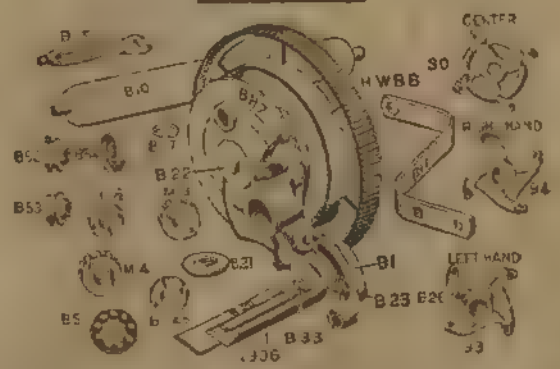
‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER® HIGH WHEEL LAWN MOWER.

(1909 MODEL.)



STYLE WBB—Ball Bearing.

	Each
No. HWBB 10/8—Drive Wheel, 10 inch Diameter, Straight Spokes, Cast, Both Alike	$1.00
‡No. HWBB 9½—Drive Wheel, 9½ inch Diameter, Bent Spokes, Cast, Both Alike	1.00
‡No. HWBB 10/8—Drive Wheel, 10 inch Diameter, Bent Spokes, Cast, Both Alike	1.00
No. B —Right Hand Roller Bracket, Malleable	.16
No. B1—Left Hand Roller Bracket, Malleable	.13
No. BH7—Right Hand Side Plate, Cast	1.50
No. B116—Left Hand Side Plate, Cast	1.50

No. 1909—Straight Knife Bar, Cast.

Inches	14	16	18	‡20
Each	$0.75	.90	90	1.00

No. B20—Straight Knife, Steel.

	14	16	18	‡20
	$0.50	.60	.60	.75

‡No. B300—Spiral Cutter (Malleable Spiders and Four Spiral Steel Blades) complete.				
Inches	14	16	18	20
Each	$6.50	6.00	6.50	7.00
‡No. B9 —Spiral Cutter Blades, Steel.				
Inches	14	16	18	20
Each	$0.50	.60	.66	.70
‡No. B16—Wood Roller				
Inches	14	16	18	20
Each	$0.55	.65	.70	.80
‡No. B11—Handle Irons, Wrought, Both Alike.				
Inches	14	16	18	20
Each	$0.30	.35	.40	.45

	Each
‡No. 30—Center Spider, Malleable, for Spiral Cutter	$0.26
‡No. 93—Left Hand Spider, Malleable, for Spiral Cutter	.50
‡No. 94—Right Hand Spider, Malleable, for Spiral Cutter	.50
‡No. W13—Left Hand Pinion, Cast	.50
No. W14—Right Hand Pinion, Cast	.50
‡No. [illegible]—Right Hand Ratchet Clutch, Cast	.24
‡No. B14½—Left Hand Ratchet Clutch, Cast	.28
No. B15—Wrench, Malleable	.05
‡No. B17—Grinding Wire, Steel	.02
‡No. B18—Drive Wheel Bolt	.10
No. B19—Cotter, for End of Cutter Shaft	.05
‡No. B21—Drive Wheel Washer	.05
‡No. B23—Roller Bracket Bolt	.08
‡No. B24—Bolt, for Handle Iron	.08
‡No. B26—Set Screw for Spider	.10
‡No. B33—Lower Blade Screw	.05
No. B35—Adjusting Screw, for Straight Knife Bar	.10
‡No. B49—Pin, for Ratchet Clutch	05
‡No. B50—Wood Handle, Complete	1.00
No. B51—Ball Retainer and Balls, Steel	.16
‡No. B52—Right Hand Ball Bearing Cone, Steel	.50
‡No. B53—Left Hand Ball Bearing Cone, Steel	.50
‡No. B54—Ball Bearing Cups, Steel	26
‡No. B700—Pointed Screw, for Right Hand Cone	.08
‡No. B701—Cup Point Screw, for Left Hand Cone	.08

Packed Loose.

In ordering Parts always give the Number and Name of Part wanted, also the Width of Cut of Machine and the Style Number (the Width is cast in raised figures on the Knife Bar; the Style Number appears on the Drive Wheel). Do not give Patent Dates, these will not identify the Mower). Most of these Parts weigh less than 4 lbs., and can be sent by mail or express at slight cost.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡EXTRA PARTS FOR LAWN MOWERS.

FOR WINNER® BALL BEARING LAWN MOWERS.

‡STYLE B. B.; HIGH WHEEL

	Each
‡No. BBHW—Drive Wheel, 10 inch Diameter Straight Spokes, Cast, Both Alike	$1.00
‡No. BBHW 9½—Drive Wheel, 9½ inch Diameter Bent Spokes, Cast, Both Alike	1.00
‡No. BBHW 10—Drive Wheel, 10 inch Diameter Bent Spokes, Cast, Both Alike	1.00
‡No. N1 —Roller Bracket, Malleable, Both Alike	.10
‡No. B156—Right Hand Side Plate, Cast	1.50
‡No. B156—Left Hand Side Plate, Cast	1.50

‡No. HW7—Straight Knife, Steel, and Bar, Cast.				
Inches	14	16	18	20
Each	$1.35	1.70	2.00	2.25
‡No. HW8—Spiral Cutter (Malleable Spiders and Four Spiral Steel Blades) complete.				
Inches	14	16	18	20
Each	$5.50	6.00	6.50	7.00
‡No. HW9—Spiral Cutter Blades, Steel				
Inches	14	16	18	20
Each	$0.55	.60	.65	.70
‡No. HW10—Wood Roller				
Inches	14	16	18	20
Each	$0.75	.65	.75	.80
‡No. HW11—Handle Irons, Wrought, Both Alike.				
Inches	14	16	18	20
Each	$0.35	.35	.40	.45

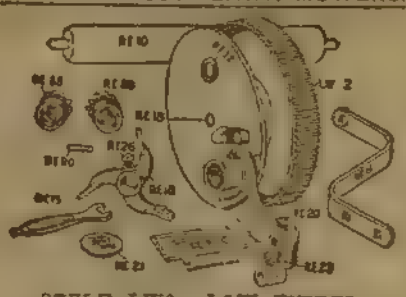
	Each
‡No. HW13—Left Hand Pinion, Cast	$0.50
‡No. HW14—Right Hand Pinion, Cast	.50
‡No. HW13½—Right Hand Ratchet Clutch, Cast	.26
‡No. HW14½—Left Hand Ratchet Clutch, Cast	.28
‡No. HW15—Wrench, Malleable	.06
‡No. HW30—Center Spider, Malleable, for Spiral Cutter	.26
‡No. HW17—Grinding Wire, Steel	.02
‡No. HW18—Drive Wheel Bolt	.10
‡No. HW19—Cotter for end of Cutter Shaft	.06
‡No. HW20—Screws for Right and Left Hand Ball Bearing Cones	.08
‡No. HW21—Drive Wheel Washer	.06
‡No. HW23—Roller Bracket Bolt	.10
‡No. HW24—Bolt for Handle Iron	.08
‡No. HW25—Bolt for Straight Knife Bar	.06
‡No. HW26—Set Screw for Spider	.10
‡No. HW32—Screw for Front Cross Rod	.05
‡No. HW28—Left Hand Spider, Malleable, for Spiral Cutter	.50
‡No. HW29—Right Hand Spider, Malleable, for Spiral Cutter	.50
‡No. HW49—Pin for Ratchet Clutch	.06
‡No. HW50—Wood Handle, complete	1.00
‡No. B51 —Ball Retainer and Balls, Steel	.16
‡No. B52 —Right Hand Ball Bearing Cone, Steel	.50
‡No. B53 —Left Hand Ball Bearing Cone, Steel	.50
‡No. B54 —Ball Bearing Cups, Steel	.26

Packed Loose.

In ordering Parts always give the Number and Name of Part wanted, also the Width of Cut of Machine and the Style Number (the Width is cast in raised figures on the Knife Bar; the Style Number appears on the Drive Wheel; Do not give Patent Dates, these will not identify the Mower). Most of these Parts weigh less than 4 lbs. and can be sent by Mail or Express at slight cost.

EXTRA PARTS FOR LAWN MOWERS.

FOR RUN EASY* LAWN MOWERS.



STYLE LW2. LOW WHEEL. Each

No. LW2—Drive Wheels, Cast, Both Alike.. .... $0.76
Bronze Bearing Journal, Both Alike . .30
No. LW4—Roller Bracket, Malleable, Both Alike... .16
‡No. RE— Steel Axle and Cast Bar.

Inches	12	14	16	18
Each	$1.20	1.30	1.40	1.50

‡Spiral Cutter Blade, Steel

Inches	12	14	16	18
Each	$0.50	.56	.60	.66

‡Spiral Cutter (Malleable Spiders and Three Spiral Steel Blades) complete

Inches	12	14	16	18
Each	$3.50	4.50	5.00	5.50

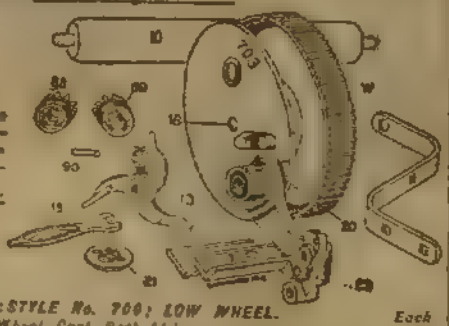
No. RE10—Wood Roller.

Inches	12	14	16	18
Each	$0.46	.56	.66	.76

No. RE11—Handle Iron.
Wrought, Both Alike

Inches	12	14	16	18
Each	$0.30	.30	.36	.36

No. RE15—Wrench, Malleable ..... .06
‡No. RE16—Spider, Malleable (state if center or end).... .50
No. RE18—Bolt for Wheel ..... .10
No. RE20—Screw and Nut, Steel, for Journal Box .08
No. RE21—Washer, Cast, for Drive Wheel. .00
‡No. RE23—Bolt for Roller Bracket..... .08
‡No. RE24—Bolt for Handle Iron..... .08
‡No. RE25—Bolt for end of Knife Bar . .08
‡No. RE26—Set Screw, Steel, for Spider .10
No. RE27—Right Hand Side Plate, Cast 1.00
No. RE28—Left Hand Side Plate, Cast . 1.00
‡No. RW80—Wood Handle, complete ... .70
No. RE38—Right Hand Pinion, Cast .20
No. RE39—Left Hand Pinion, Cast .20
No. RE30—Steel Ratchet Pin .06



‡FOR UTILITY* AND BAY STATE* LAWN MOWERS.

‡STYLE No. 700; LOW WHEEL. Each

‡No. W —Drive Wheel, Cast, Both Alike... $0.90
‡No. 3 —Wood Bearing, Cast, Both Alike .. .50
‡No. 4 —Iron Roller Bracket, Cast, Both Alike.. .18
‡No. 702—Iron Right Side Plate, Cast .. .50
‡No. 706—Iron Left Side Plate, Cast .. .50
‡No. 7 —Steel Spiral Knife and Cast Bar, 12 inches .. .50
‡No. 8 —Steel Cutter (Malleable Spiders, Steel Spiral Cutter Blades) complete, 12 inches .. .70
‡No. 9 —Spiral Cutter Blades, Steel, 12 inches. .. .60
‡No. 10 —Wood Roller, 12 inches.. .54
‡No. 11 —Iron Handle, Wrought, Both Alike, 12 inches.. .30
‡No. 38 —Right Pinion, Cast .24
‡No. 39 —Left Pinion, Cast .24
‡No. 30 —Ratchet Pin, Steel .06
‡No. 15 —Iron Wrench, Cast .50
‡No. 16 —Iron Spiders, Malleable, for Knives (state if center or end) .60
‡No. 18 —Bolt for Wheel.... .12
‡No. 20 —Screw and Nut, Steel, for Journal Bearings .10
‡No. 21 —Iron Washer, Cast for Drive Wheel .06
‡No. 25 —Bolt for Roller Bracket .10
‡No. 24 —Bolt for Handle Iron.... .10
‡No. 25 —Bolts for end of Straight Knife Bar.. .10
‡No. 26 —Set Screw, Steel, for Spider .12
‡No. 58 —Wood Handle, complete . .50

Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

EXTRA PARTS FOR LAWN MOWERS.

FOR OAK LEAF* LAWN MOWERS.

Each

‡No. S 1—Drive Wheel, Cast, Both Alike.. $1.00
‡No. SR—Right Hand Roller Bracket, Malleable .15
‡No. SL—Left Hand Roller Bracket, Malleable . .15
‡No. S 2—Right Hand Side Plate, Cast 1.50
‡No. S/3—Left Hand Side Plate, Cast . 1.50
‡No. S/4—Straight Knife Bar, Cast

Inches	14	16	18	20
Each	$0.76	.86	.96	1.06

‡No. S 5—Straight Steel Knife.

Inches	14	16	18	20
Each	$0.50	.60	.86	.70

‡No. S 6—Spiral Cutter, complete.

Inches	14	16	18	20
Each	$5.50	6.00	6.50	7.00

‡No. S/7—Spiral Cutter Blades, Steel

Inches	14	16	18	20
Each	$0.56	.60	.66	.70

‡No. S 8—Wood Roller.

Inches	14	16	18	20
Each	$0.56	.66	.76	.86

‡No. S 9—Handle Irons, Wrought, Both Alike

Inches	14	16	18	20
Each	$0.36	.36	.40	.46

Each

‡No. S 10—Left Hand Pinion, Cast .. $0.50
‡No. S/11—Right Hand Pinion, Cast . .50
‡No. S/12—Double Ratchet Pin, Steel .. .26
‡No. S/13—Wrench, Malleable .... .05
‡No. S/14—Drive Wheel Bolt .. .10
‡No. S/15—Pointed Screw for Right Hand Cone . .08
‡No. S/16—Cup-pointed Screw for Left Hand Cone . .08
‡No. S. 17—Drive Wheel Washer, Cast . .05
‡No. S 18—Roller Bracket Bolt . .08
‡No. S 19—Bolt for Handle Iron . .08
‡No. S 20—Screw for Lower Blade .. .05
‡No. S/21—Set Screw for Spider .. .10
‡No. S/79—Left Hand Spider, Malleable .... .50
‡No. S 78—Right Hand Spider, Malleable ..... .50
‡No. S/43—Center Spider, Malleable ..... .26
‡No. S/22—Wood Handle, Complete . 1.00
‡No. S/23—Bolt Retainer and Balls, Steel ..... .15
‡No. S/24—Right Hand BB Cone, Steel ..... .50
‡No. S 25—Left Hand BB Cone, Steel ..... .50
‡No. S/26—Ball Bearing Cups, Steel ... .26
‡No. S/28—Adjusting Screw to Knife Bar .. .10

Packed Loose.

In ordering Parts, always give the Number and Name of the Part wanted, the Width of Cut of Machine and the Year in which it was Made, or the Style Number (the Width is cast in raised Figures on the Knife Bar; On Mowers made prior to 1898 the Year and Date of Manufacture is cast on the Side Plate. On those Made in 1898 and later the Style Number, which takes the place of the Year Date, is cast on the Drive Wheel. Do not give the Patent Dates, these will not identify the Mower). Most of these Parts Weigh less than 4 lbs., and can be sent by mail or express at slight cost.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

Attractive New Swiss Watches -- Flat Models

These are Unique Style with Novelty Features and Immensely Popular with Premium Men and Schemists

Prices are Net Cash

No. 1841. Men's Gold Plated Watch. Very pretty, new flat model, antique bow and crown, snap front, hinge back, fancy gold hands, white enamel dial with neat color tinting in the figure zone, good jeweled nickel movement; a very attractive and genteel open face watch; should be a seller of the first type with any dealer; 16 size. Each.. **1.70**

"THE ROSKOPF SYSTEM" WATCHES

With Slip-Cog Winding Gear, preventing overwinding and spring breaking.

No. 1842. Men's Gold Plated Watch, new thin model, antique bow and crown, open face, jointed, plain finish, gold dial, sunray pattern, black figures and hands; a good jewel cylinder movement. This is one of the newest style 16s watches made, especially adapted for premium purpose. Each **1.70**

No. J1908. **Gent's Thin Model 14s White Metal,** photo-gravure representing the world's famous beauties etched in gold to contrast. Three-quarter nickle cylinder movements, best of their class, and particularly desirable where maximum appearance is desired at a minimum price. Our price **2.75**

No. 773. Roskopf System Watch, 18 size, plain polished German silver case, gold plated, antique crown and bow, stem wind, slug set, jeweled lever movement, hinge back, inside glass cap. Excellent running and timekeeping watch. Movement is constructed with a safety slip cog which prevents overwinding or breaking of spring. Each **1.25**

No. 778. As above, 18 size, in gun metal, good reliable watch for any man Each **1.25**

No. **J103. Genuine Gun Metal Extra Thin Model,** Half Hassine shape backs. Jet black background decorated in silver and gold, embossed and relief. Portraits representing fancy figures, floral designs, sporting scenes, and a variety of well known stage folk. Three-quarter plate nickle cylinder movements, pendant set, the best of their kind. Equipped with fancy arabic dials, showing the figures on light blue, or pink backgrounds with bright center Our price **2.00**

No. 977. Calendar Watch, gun metal case, tinted and gold decorated enamel dial, with four sub-dials showing day of the week, month of the year and the date of the month, the second dial also showing in perspective the passes of the moon, each dial has individual and independent setting gear, hinge front and back, inside glass cap. 7 jewel lever, exposed winding wheel, nickel movement, well finished, a handsome watch all around, stem wind and set. Each **3.00**

18 Size, Sterling Silver S. W. Cases, Hunting and Open Face

Sterling Silver, engraved silver caps, gold crowns and joints

Hunting			Open Face		
No 18081	3 oz	$16 66	No 18086	3 oz	$15.25
No 18082	4 oz	21 45	No 18087	4 oz	19.55
No 18083	5 oz	26 10	No 18088	5 oz	23.75
No 18084	6 oz	31 55	No 18089	6 oz	29.45
No 18085	8 oz	66 85	No 18090	8 oz	59 15

Sterling silver, plain polished, silver caps, gold crowns and joints

Hunting			Open Face		
No 18091	3 oz	$15 25	No 18096	3 oz	$15.25
No 18092	4 oz	19.85	No 18097	4 oz	19 85
No 18093	5 oz	24.50	No 18098	5 oz	29 05
No 18094	6 oz	29 90	No 18099	6 oz	35.85
No 18095	8 oz	53.75	No 18100	8 oz	50.50

Sterling silver, assorted engravings

No 18101 Hunting $9.75

No. 18102 Open face, [illegible] . . 8.85

No. 18103 Open face, screw back and bezel. . 8.45

Sterling silver, plain polished or engine turned

No. 18104 Hunting $8.70

No. 18105 Open face, screw back and bezel, gilt crown 7.75

Sterling silver plain polished

No. 18106 Hunting $8.70

Screw back and bezel, Bassine, gilt crown, 3 oz.

No. 18107 Plain polish . 7.75

No. 18108 Gold inlaid, stag or locomotive design 11.10

Sterling silver, 18 size, open face, screw bezel and solid back, with swing ring, solid gold dust proof crown, solid gold inlaid designs

No. 18109 4 oz., stag, locomotive, sawmill or eagle $20.40

No. 18110 3 oz., stag, locomotive, sawmill or eagle 17.75

18 size, open face, screw back and bezel

No. 18112 3 oz., gold inlaid any design as above note $15.05

No. 18113 4 oz., gold inlaid any design as above note 16.25

No. 18113 3 oz., plain . 11.80

No. 18114 4 oz., plain . . 13.05

Sterling Silver S. B. & B. Cases

Furnished in Locomotive, Sawmill, Stag, etc., designs. When ordering inlaid cases specify which design is wanted.

We Fit All Movements to Cases and Regulate Watches Before Shipping.

On this page we quote price of cases only. To determine cost of complete watch, select movement from page 89 to page 91 and 98, and add cost of same to cost of case.

For example see page 23.

18 size, open face, screw back and bezel

No 18116 3 oz., gold inlaid any design $15.05

No 18115 4 oz., gold inlaid any design 16.25

Round bow case furnished when desired. Hand engraved cases furnished at $1.10 extra.

Sterling Silver Dust Proof, Screw Bezel and Solid Back Cases

18 Size, Open Face, Screw Bezel and Solid Back, with Swing Ring Gilded Reflector and Patent Dust-Proof Gold Crown. Furnished in Plain Polished and Solid Inlaid Designs, Stag, Locomotive and Sawmill. When Ordering Inlaid Cases Mention Design You Wish

Cases No. 18117 to 18120 are fitted with Patent Ball Bearing Safety Bow which cannot be forced out, giving absolute security. Just the kind of protection necessary on watches carried by miners, lumbermen railroad employs, mechanics, farmers, etc.

(Cut shows inlaid design)

(Cut shows inlaid design)

No. 18117 3 oz., 18 size, plain polished $18.00

No. 18118 3 oz., 18 size, gold inlaid, any design, see above note. 21.00

No. 18119 4 oz., 18 size, plain polished. 21.00

No. 18120 4 oz., 18 size, gold inlaid, any design; see above note... 23.99

On this page we quote price of cases only. To determine cost of complete watch, select movement from page 89 to pages 91 and 98, and add cost of same to cost of case. For example see page 23.

18 Size, Hercules Dust Proof, Silver Filled Cases

Open face, screw bezel and solid back, with swing ring, gilded reflector and patent dust-proof sterling silver crown, also silver bow and pendant, solid gold dust-proof nut, guaranteed double stock, one-half silver and one-half nickel, and to wear permanently.

We Fit All Movements to Cases and Regulate Watches Before Shipping

HERCULES SILVER FILLED SWING RING CASES

No. 18131 3 oz., 18 size, gold inlaid designs, locomotive, stag, sawmill, or eagle $15.95

No. 18132 4 oz., 18 size, gold inlaid designs, locomotive, stag, sawmill, or eagle 17.55

No. 18133 3 oz., 18 size, plain polish 12.05

No. 18134 4 oz., 18 size, plain polish 14.35

HERCULES, TWO PIECE GOLD DUST PROOF PENDANT SECTIONAL GOLD REFLECTOR BEZEL

No. 18125 3 oz., 18 size, gold inlaid $16.50

No. 18126 4 oz., 18 size, gold inlaid 19.15

No. 18127 3 oz., 18 size, plain polish 13.20

No. 18128 4 oz., 18 size, plain polish 16.00

Locomotive, stag, or sawmill subjects furnished in gold inlaid designs.

18 Size O. F. Screw Bezel Nickel Cases

CRESCENT OR ILLINOIS

Nickel, 3 oz., screw bezel, solid back, swing ring, solid gold polished engraved sawmill designs, gilded reflector and dust-proof nut.
No. 18129 . . . . . $7.60
Without gilded reflector and dust-proof nut
No. 18130 . . . . . $6.65

CRESCENT NICKEL OR KEYSTONE SILVEROID

Nickel, screw bezel, solid back, swing ring, plain polished with gilded reflector and dust-proof crown.
No. 18131 2 oz. plain $4.25
No. 18132 2 oz., engine turned 4.25
No. 18133 3 oz., plain 4.25
Without gilded reflector and dust-proof nut
No 18134 . . . . . 3.35

NICKEL CASE, PATENT BALL-BEARING SAFETY BOW

Nickel open face, plain polish dust proof gold nut gilded reflector, Screw bezel only, solid back, with swinging movement ring.
No. 18135 18-size open face, 3 oz. $4.05
No. 18136 18-size open face 2 oz. 4.05
Screw Bezel and Back, Antique Bow
No. 18137 18-size, open face 2 oz. 3.15

18-SIZE NICKEL SWING RING CASE

Nickel, 3-oz screw bezel only, solid back, swing ring, plain polished, gilt crown, gilded reflector
No. 18138 Plain polished case, only $2.50

NICKEL—OUR SPECIAL

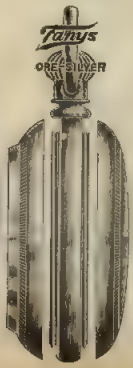
Nickel 3 oz., screw bezel, solid back with swinging ring, plain polished.
No. 18139 3 oz., gilded reflector, dust-proof crown...$3.00

DUEBER—SILVERINE

3 oz., screw bezel, solid back with swinging ring, gilded reflector and dust-proof crown.
No. 18140. . . . . $3.30

18-SIZE FAHYS ORE SILVER

Open face screw back and bezel.
No. 18141 2 oz., plain, antique $1.77
No. 18142 3 oz., plain, round bow. . . 1.77



We Fit All Movements to Cases and Regulate Watches Before Shipping.

On this page we quote price of cases only. To determine cost of complete watch, select movement from page 89 to pages 91 and 98, and add cost of same to cost of case.

For example see page 23.

18—SIZE SILVERODE

Open face, screw back and bezel
No. 18143 2 oz., plain, antique bow $1.77

18 SIZE, NICKEL STEM WIND WATCH CASES

We Fit All Movements to Cases and Regulate Watches Before Shipping.

On this page we quote price of cases only. To determine cost of complete watch, select movement from page 89 to pages 91 and 98, and add cost of same to cost of case.

For example see page 23.

No. 18144 Fancy engraved 18 size, Hunting $3.00

No. 18145 18 size, Open Face, S. B & B. ... 1.77

No. 18146 18 size, Hunting . $3.00

No. 18147 18 size, Open Face, jewelled 3 oz 2.30

No. 18148 18 size, Open Face, jewelled 3 oz key wind 1.95

DUEBER SILVERINE

Open Face, screw back and bezel, knurled center, gilt crown, gilt reflector, antique bow

No. 18140 2½ oz 18 size, locomotive . $1.77

DUEBER SILVERINE

Open Face, screw back and bezel, knurled center, gilt reflector, gilt crown, antique bow

No 18160 2½oz, 18 size plain $1.77

DUEBER—SILVERINE

Open Face, screw back and bezel, knurled center, gilt reflector, gilt crown, antique bow.

No 18161 2½ oz, 18 size stag . $1.77

Silverode, 18 size, Open Face, 3 oz., screw back and bezel.

No. 18158 Plain polished . . $1.60

No. 18159 Engraved in stag, locomotive and landscape designs. 1.60

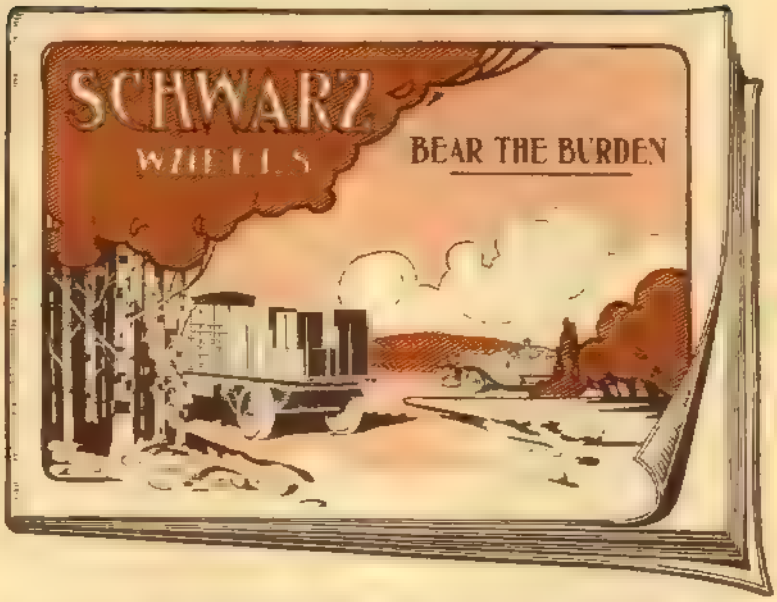
Nickel fancy engraved stag and locomotive and landscape designs, screw back and bezel

No 18154 3 oz., engraved, 18 size $1.60

No 18155 3 oz., plain polished, 18 size 1.60

CROWN-SILVERODE

No 18156 18 size, 5 oz., screw back and bezel, plain polished . . $2.85



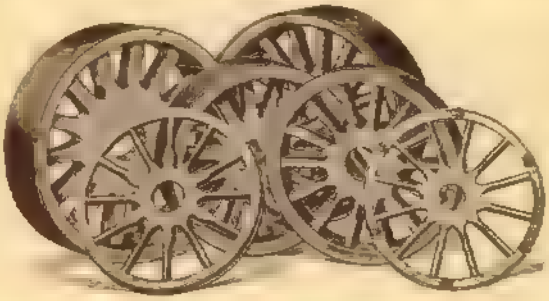
This is the title of a booklet which should be in the possession of every person who is interested in automobiles. It tells in clear, interesting, convincing language why

SCHWARZ WHEELS

are the safest, strongest and most economical.

Every maker of pleasure cars or trucks, every dealer in either or both, every owner of a car used for either business or pleasure purposes, owes it to himself to learn why the car he makes, sells or operates should be equipped with SCHWARZ WHEELS

This booklet gives the why and wherefore. If you are open to conviction write for it—sent free on request.



THE SCHWARZ WHEEL COMPANY

Frankford, Philadelphia, Penna.

SCHWARZ

SCHWARZ WHEELS are truly unique in that there are no other wheels like them. The manner of their making is so distinctive and so different from that employed by other manufacturers that there is no room for any question or doubt or for assertions of "just as good".

Either SCHWARZ WHEELS are made the **best** way or they are not. There is no middle ground to take. The theory is either right or it is wrong. If it is right, then other wheels cannot hope to compare with the SCHWARZ product. If it is wrong, then SCHWARZ WHEELS have no right to be used—as they are—on practically all the best pleasure cars and leading motor trucks built in this country.

As a matter of fact, there is no question about the theory being right. Automobile designers and engineers freely admit that it is right and acknowledge that SCHWARZ WHEELS are the safest, strongest and most economical. Manufacturers of high-class cars and trucks who are seeking quality, strength and safety rather than a low-priced product invariably choose SCHWARZ WHEELS, because experience has demonstrated that no other wheels can begin to approach them in any of the essential qualifications necessary for automobile or motor truck service.

The Schwarz Wheel Company,

WHEELS

Why are SCHWARZ WHEELS so much superior to the others? The answer lies in the way they are made. In other types of artillery wheels the ends of the spokes, where they fit in the hub, are mitered or wedge-shaped. They are held together only by glue, the hub flanges and the hub flange bolts. When subjected to great strain, they may—and frequently do—work loose, weakening the support and causing the wheels to become shaky, cease to run true and finally become useless.

In SCHWARZ WHEELS the ends of the spokes are grooved and mortised. They dovetail or interlock, forming a rigid, immovable center assembly, which cannot loosen or get out of shape under the most severe strain. The spokes are put together at one time, under pressure, the distances between them being mathematically exact. This causes an even distribution of the strength of the wheels. This construction eliminates wheel troubles and assures you a freedom from danger and disaster caused by poorly constructed wheels.

The superiority of SCHWARZ WHEELS is so widely known and freely acknowledged that their presence is an assurance of safety and a selling argument of great value. If your product is not SCHWARZ-equipped, it's time you thought of joining the ranks of makers whose cars have that great asset.

Frankford, Philadelphia, Pa.

Schwarz Wheel SPIDERS

A new time, trouble and money saving way of making wheel repairs.

No more turning, polishing and assembling of spokes, the hardest and most costly part of wheel repair. No necessity for hard fitting and fitting new spokes to take the place of broken or damaged ones. No difficulty in trying to get a repair which will run true and be lasting.

All this work is done for you in the SCHWARZ WHEEL SPIDER **Simply apply felloes and metal rim, and the job is complete.**

The more motor vehicles there are in use, the greater is the necessity for wheel repair and replacement. The repair man, who carries SCHWARZ WHEEL SPIDERS can make these repairs in a quicker, less costly, less troublesome, but more efficient manner than is possible in any other character of work.

Spiders are made with Schwarz spokes, which dovetail and interlock, forming a tight, immovable center assembly that cannot loosen or work out of true. They can be carried in stock for any length of time, and will always remain tight and perfect.

Spiders come in all sizes, with 10, 12 or 14 spokes to the wheel, and for all types of automobiles.

Make more money, and give greater satisfaction by using SCHWARZ WHEEL SPIDERS. Description and price list on request.

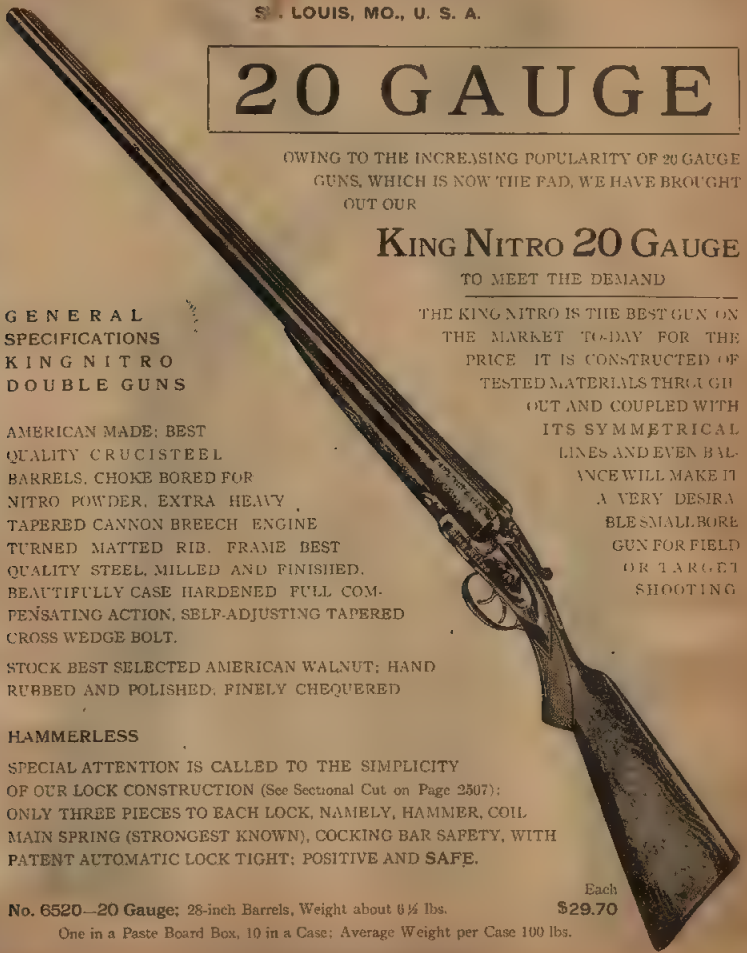
The Schwarz Wheel Company

Frankford, Philadelphia, Pa.

CENTI AL ARMS CO.'S GUNS

S . LOUIS, MO., U. S. A.

20 GAUGE



OWING TO THE INCREASING POPULARITY OF 20 GAUGE GUNS, WHICH IS NOW THE FAD, WE HAVE BROUGHT OUT OUR

KING NITRO 20 GAUGE

TO MEET THE DEMAND

THE KING NITRO IS THE BEST GUN ON THE MARKET TODAY FOR THE PRICE IT IS CONSTRUCTED OF TESTED MATERIALS THRU GH OUT AND COUPLED WITH ITS SYMMETRICAL LINES AND EVEN BAL- ANCE WILL MAKE IT A VERY DESIRA BLE SMALL BORE GUN FOR FIELD OR TARGET SHOOTING

GENERAL SPECIFICATIONS KING NITRO DOUBLE GUNS

AMERICAN MADE; BEST QUALITY CRUCISTEEL BARRELS, CHOKE BORED FOR NITRO POWDER, EXTRA HEAVY TAPERED CANNON BREECH ENGINE TURNED MATTED RIB. FRAME BEST QUALITY STEEL, MILLED AND FINISHED, BEAUTIFULLY CASE HARDENED FULL COMPENSATING ACTION, SELF-ADJUSTING TAPERED CROSS WEDGE BOLT.

STOCK BEST SELECTED AMERICAN WALNUT; HAND RUBBED AND POLISHED, FINELY CHEQUERED

HAMMERLESS

SPECIAL ATTENTION IS CALLED TO THE SIMPLICITY OF OUR LOCK CONSTRUCTION (See Sectional Cut on Page 2507); ONLY THREE PIECES TO EACH LOCK, NAMELY, HAMMER, COIL MAIN SPRING (STRONGEST KNOWN), COCKING BAR SAFETY, WITH PATENT AUTOMATIC LOCK TIGHT; POSITIVE AND SAFE.

Each

No. 6520—20 Gauge; 28-inch Barrels, Weight about 6½ lbs. **$29.70**

One in a Paste Board Box, 10 in a Case; Average Weight per Case 100 lbs.

"DIAMOND EDGE IS A QUALITY PLEDGE"

*DIAMOND EDGE RAZORS

SQUARE POINT

ROUND POINT

HOLLOW POINT

The excellency of these Razors consists in their being made of the very best quality English Steel.

Unequalled for Private as well as for Barber's use and fully warranted.

HOW TO USE A RAZOR

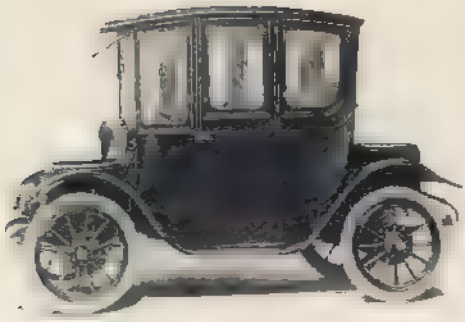
Lay the Razor as nearly flat as possible on the face and cut in a sloping direction.

Those who are troubled with a strong beard or tender skin, will find it highly beneficial to wash the face with warm water and soap before shaving, as time spent in softening the beard adds materially to the comfort of the operation.

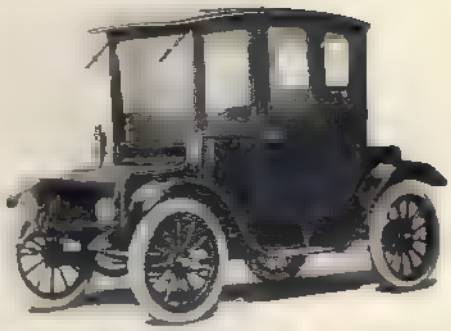
SHAPLEIGH HARDWARE COMPANY
St. Louis, U. S. A.

The Above is a Fac-Simile of the Wrapper Put Around Each *DIAMOND EDGE* Razor

"DIAMOND EDGE IS A QUALITY PLEDGE"



BROC MODEL 32 B, 4-PASS BROUGHAM, $3000.
Also Model 31 B, 4-Pass. Brougham, $2950.



BROC MODEL 29 B, 4 PASS. BROUGHAM, $2950.

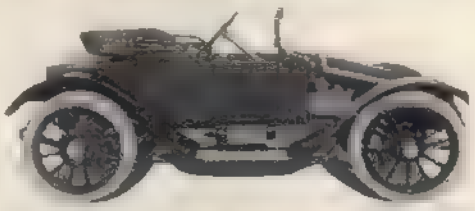
Pleasure Cars

Mileage Per Charge	Style Drive	Speeds Forward	Control Position	Wheelbase
	Detroit, Mich.			
85	B	..	..	94
85	B	..	..	85
85	B	..	..	98
85	W	..	..	100
	Saginaw, Mich.			
80	..	5	L	108
75	..	5	L	110
	Amesbury, Mass.			
75	C	6	L	112
60	C	6	L	132
80	C	4	L	92
	Cleveland, Ohio.			
75	C	6	L	92
75	C	6	L	88
	Chicago, Ill.			
80	B	6	L	92
80	B	6	L	123
	Cleveland, Ohio.			
90	B	5	L	96
90	B	5	L	96

DETROIT MODEL 47, 4-PASS. BROUGHAM, $2850.
(Made by Anderson Electric Car Co.)
Also Model 48, 4-Pass. Brougham, $2550; Model 44, Victoria, $2300; Model 45, 5-Pass. Brougham, $2800. Mode. 46, 2-Pass. Roadster, $2500; Model 48, 5-Pass. Duplex Drive Brougham, $3000.

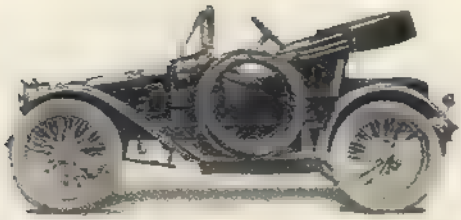
BROC MODEL 28 B, 4-PASS. BROUGHAM, $2900.

BORLAND MODEL 60, 7-PASS. LIMOUSINE

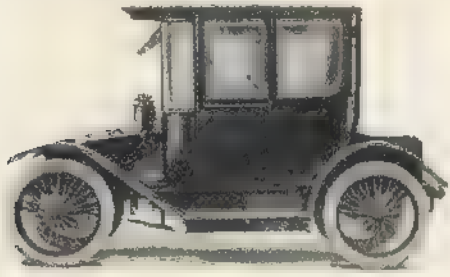


BORLAND MODEL 52, 2-PASS. ROADSTER, $2550.

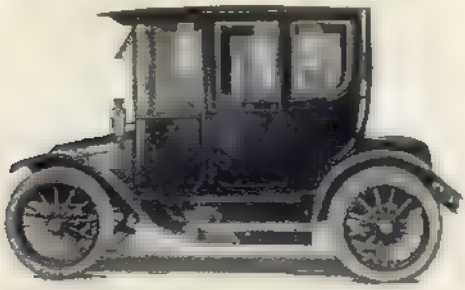
BORLAND MODEL 50, 5 PASS BROUGHAM, $2900.



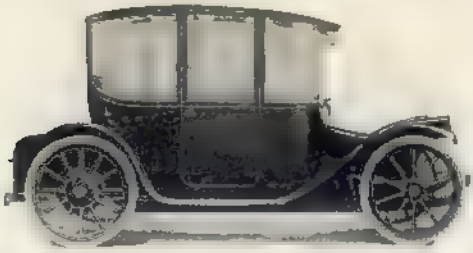
BUFFALO MODEL 29, 2-PASS. ROADSTER, $2600



BUFFALO MODEL 30, 4-PASS. COUPE, $2900.



BUFFALO MODEL 30-B, 5-PASS. BROUGHAM, $3000.



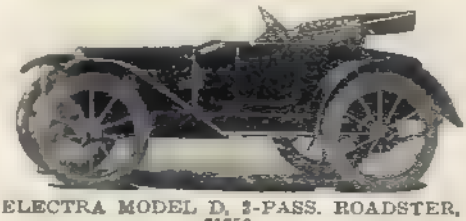
CENTURY MODEL LB, 5-PASS. BROUGHAM, $3250.

ELECTRA MODEL C, 2-PASS. ROADSTER, $750.

CHICAGO MODEL 141, BROUGHAM, $3000.

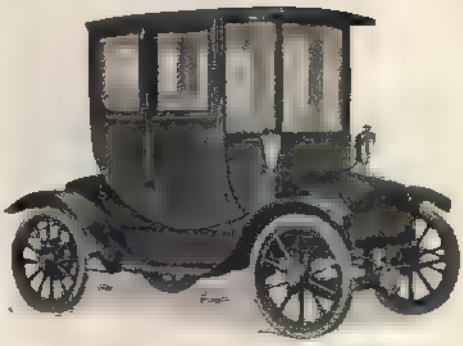
Electric

Model	Price	Passengers	Battery Make
Buffalo Electric Vehicle Co.,			
29	2600	2	P
Century Electric Car Co.,			
LB	....	5	O
Chicago Electric Motor Car Co.,			
131	....	4	..
Columbus Buggy Co.,			
1230	2350	4	EX
1234	2800	4	EX
1250	3000	4	EX
Dayton Electric Car Co.,			
1021	....	4	O
1022	....	5	O
Electria Mfg. Co.,			
C	....	2	H
D	....	2	H
Fritchle Automobile & Battery Co.,			
Brougham	3000	5	
Coupe	3000	4	
Roadster	2500	4	.
Runabout	2400	2	..
Grinnell Electric Car Co.,			
R	....	5	U
S	....	5	U
K	....	4	U



ELECTRA MODEL D, 2-PASS. ROADSTER, $1250.

CHICAGO MODEL 142, BROUGHAM, $3300.



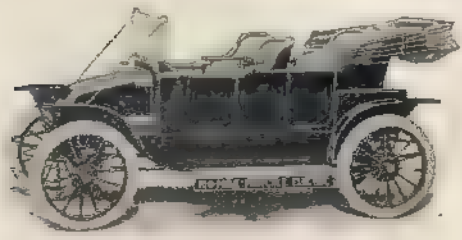
GRINNELL MODEL R FRENCH BROUGHAM

Pleasure Cars

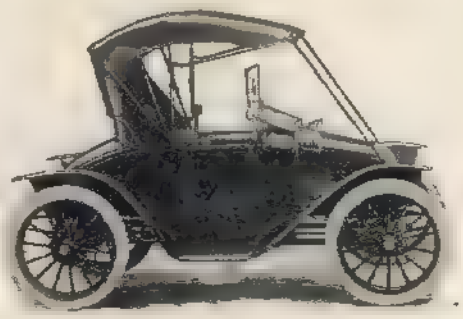
Mileage Per Charge	Style Drive	Speeds Forward	Control Position	Wheelbase
	Buffalo, N. Y.			
75	B	5	L	100
	Detroit, Mich.			
85	B	4	L	104
	Chicago, Ill.			
..	B	..	L	...
	Columbus, Ohio.			
65	B	6	L	
65	B	6	L	92
65	B	6	L	100
	Dayton, Ohio.			
65	S	5	L	
65	S	5	L	92
	Los Angeles, Cal.			
40	W	4	L	90
75	W	4	L	96
	Denver, Colo.			
100	S	6	L	...
100	S	6	L	...
100	S	6	L	..
100	S	6	L	...
	Detroit, Mich.			
75	B	5	L	105
80	B	5	L	100
75	B	5	L	94

FRITCHLE 5-PASS. BROUGHAM, $3000.

FRITCHLE 4-PASS COUPE, $3000.

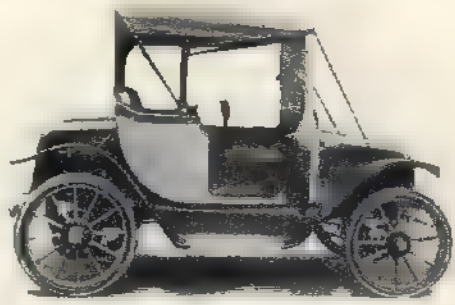


FRITCHLE 4-PASS. RUNABOUT, $2500.

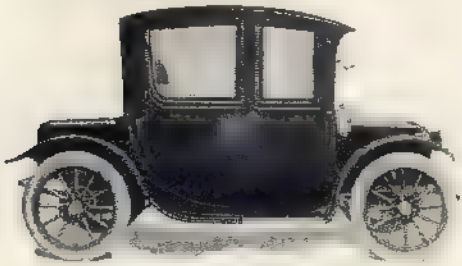


FRITCHLE 2-PASS. ROADSTER, $2400.

WAVERLEY MODEL 104, 4-PASS. BROUGHAM, $2900.



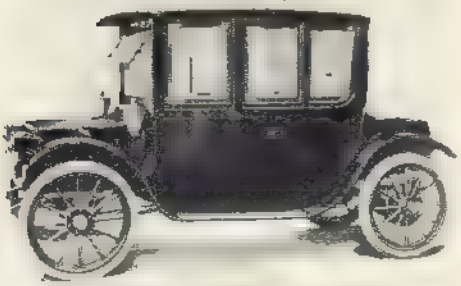
WOODS MODEL 1330, 3-PASS. ROADSTER, $2500.



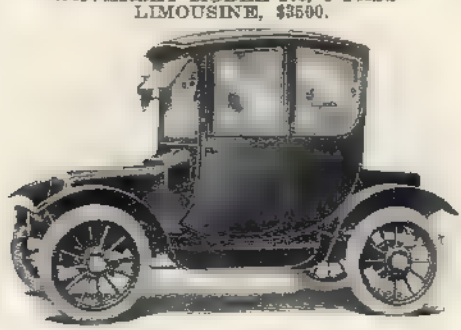
WAVERLEY MODEL 107, 4-PASS. BROUGHAM, $3150.

Electric

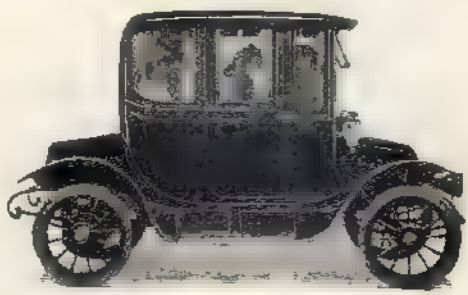
Model	Price	Passengers	Battery Mile
	Ohio Electric Car Co.,		
O	2900	5	EX
	Rauch & Lang Carriage Co.,		
B4	2950	4	O
J4	3100	5	O
	Standard Electric Car Co.,		
M	1990	4	EX
	Waverley Company,		
101	2800	4	O
48	3500	5	O
90	2250	3	O
	Woods Motor Vehicle Co.,		
1333	3200	5	..
1332	$600	5	..



WAVERLEY MODEL 108, 5-PASS LIMOUSINE, $3500.



RAUCH & LANG MODEL CR, 2-PASS COUPE, $2800.



OHIO ELECTRIC MODEL "O," 5-PASS. BROUGHAM $2900

RAUCH & LANG MODEL J-4, DOUBLE DRIVE COACH, $3200.

RAUCH & LANG MODEL J-4, SINGLE DRIVE COACH, $3100.

SAFETY RAZORS

GILLETTE

Each

No. 460—Standard, Solid Metal Razor, Triple Silver Plated, with 12 Double Edged Wafer Blades in Metal Box to Match Razor, in Morocco Grain Leather Case, Velvet Lined $5.00
7 50

Each

No. 460B—Standard, Solid Metal Razor, Triple Silver Plated, with 12 Double Edged Wafer Blades in Metal Box to Match Razor, All in Nickel Plated Metal Case, Velvet Lined $5 00
7 50

Each

No. 501—Pocket Edition, Solid Metal Razor, Triple Silver Plated, with 12 Double Edged Wafer Blades, in Metal Box to Match Razor, All in Triple Silver Plated Basket Pattern Metal Case, Velvet Lined..... $6.00
7 50

Each

No 503 —Pocket Edition, Solid Metal Razor, Triple Silver Plated, with 12 Double Edged Wafer Blades in Metal Box to Match Razor, All in Flower Pattern Triple Metal Case, Velvet Lined $5 00
7.50

No. 503A—Gold Plated Razor and Gun Metal Case, Otherwise Same as No 503..... 6 50
8 25

Note—For Extra Blades, See Page 1531

SAFETY RAZORS

GILLETTE

No. 504B—**Pocket Edition**, Solid Metal Razor, Gold Plated, with 12 Double Edged Wafer Blades in Metal Box to Match Razor, All in Gold Plated Empire Pattern Metal Case, Velvet Lined . . . . . Each $6.00 9.00

No. 505—**Pocket Edition**, Solid Metal Razor, Triple Silver Plated, with 12 Double Edged Wafer Blades in Metal Box to Match Razor, All in Black Cowhide Leather Case, Velvet Lined . . . . . Each $5.00 7.50

No. 461B—**Combination Set**, Solid Metal Razor, Triple Silver Plated, 12 Double Edged Wafer Blades in Metal Box, Telescope Pattern Badger Hair Shaving Brush Stick Gillette Shaving Soap in Triple Silver Plated Holder, All in Nickel Plated Metal Case Velvet Lined . . . . Each $6 50 9.75

No. 461—**Combination Set**, Solid Metal Razor, Triple Silver Plated 12 Double Edged Wafer Blades in Metal Box, Telescope Pattern Badger Hair Shaving Brush, Stick Gillette Shaving Soap in Triple Silver Plated Holder, All in Morocco Leather Covered Case, Velvet Lined . . . . Each $6 00 9 00

SAFETY RAZORS

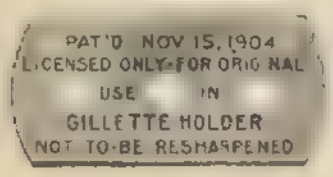
GILLETTE

	Each
No. 00—Standard Combination Set, Solid Metal Razor, Triple Silver Plated, 12 Double Edged Wafer Blades, Two Metal Blade Boxes, Badger Hair Shaving Brush and Stick Gillette Shaving Soap in Triple Silver Plated Holders, All in Seal Grain Leather Case	$6 50 9 75

	Each
No. 422—Combination Set, Solid Metal Razor, Triple Silver Plated, Two Metal Blade Boxes with 12 Double Edged Wafer Blades, Fine Quality Badger Hair Shaving Brush and Stick Gillette Shaving Soap, in Triple Silver Plated Holders, One Plate Glass Mirror, All in a Handsome Pigskin Case	$ 9 00 13 50

SAFETY RAZOR BLADES

GILLETTE



Blades in Box

	Per Dozen
Gillette New Process—For Gillette Safety Razors, Each Blade has Two Cutting Edges, Packed 12 in Nickel Plated Box, Hermetically Sealed, Sanitary Damp Proof Anti Rust and Antiseptic	$1.00 1.30
Gillette New Process—Packed 6 in Nickel Plated Box, Otherwise Same as Above	.50 .75

GEM JUNIOR

	Per Package
Gem Junior—For Gem Junior Safety Razors, 7 in a Package	$0.50

Best quality damaskeened steel. The most practical cutting edge made.

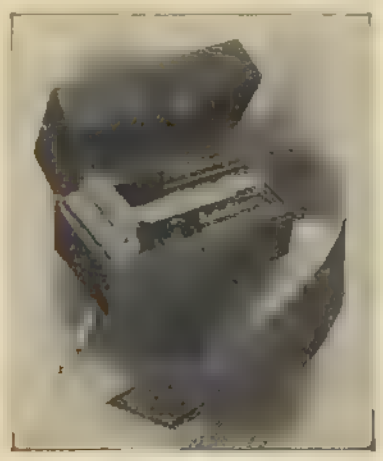
The strong reinforced convex edge always assures a perfect shave.

SAFETY RAZORS

AUTO-STROP

The Auto-Strop is simple and unique, has a self contained automatic stropping arrangement, which is so convenient that the user is pleased to frequently strop and thus save his face from irritations of a rough, dull blade. It is not unscrewed or taken apart for any purpose.

The Auto-Strop Blades are made of the finest lancet steel, under the most scientific process, and if kept stropped and clean will last indefinitely.



	Each
No. 1—Standard Set, Consists of 1 Quadruple Silver Plated, Self-Stropping Razor, 12 Auto-Strop Blades, Best Shell Horsehide Auto-Strop Strop, in Handsome Morocco Grain Black Leather Case, Velvet Lined	$5 00
	7.50

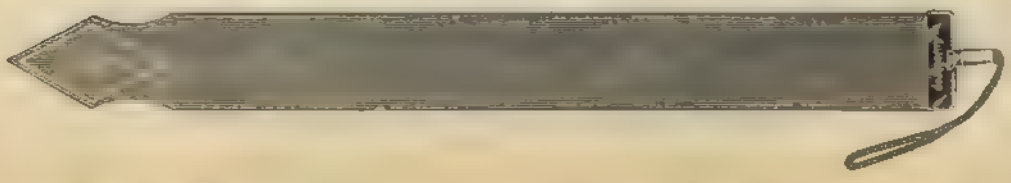
	Each
No. 50—Metal Case Set, Consists of 1 Quadruple Silver Plated Self-Stropping Razor, 12 Auto-Strop Blades, Best Shell Horsehide Auto-Strop Strop, in Handsome Heavily Nickel Plated Metal Case, Velvet Lined	$5 00
	7.50

	Each
No. 25—Combination Set, Consists of 1 Quadruple Silver Plated Self-Stropping Razor, 12 Auto-Strop Blades, 1 Shell Horsehide Auto-Strop Strop, Fine Quality Lather Brush and Stick of Shaving Soap in Silver Plated Push Bottom Tubes, in Morocco Grain Black Leather Case, Velvet Lined	$ 7.50
	11 25

AUTO-STROP BLADES

	Per Package
Extra Blades—Especially Manufactured for Use in the Auto-Strop Razor, Each Blade in a Moisture Proof Wrapper 12 Blades in a Package	$0 50
	.75

AUTO-STROP STROPS



	Per Dozen
Auto-Strop 1⅞x15 [illegible] Grade Horsehide, Specially Prepared which will Insure Good Results in Connection with Auto-Strop Razors	$6.00

*JERSEY ICE CREAM FREEZERS

DOUBLE ACTION

Showing Hinged Cover and Locking Device

The Can and Dasher Revolve in Opposite Directions; Automatic Twin Scrapers

Enclosed Gearing

The Revolving Dasher Forces the Cream from the Center to the Sides of the Can, where as it Freezes, it is Removed by the Scrapers.

Extra Heavy, XXXX Tin Can, with **Drawn Steel Bottom.** They will not Leak, and the Bottom will not Break or Fall Out of the Body of Can; Not Liable to Injury, as are Tin Plate or Cast Iron Bottoms.

The Top of Can is Strongly Wired and Turned Over, while the Lower Part is Made to Fit Over and Under the Drawn Steel Bottom by Machinery The Cans are the Strongest Made, and are not Liable to Collapse or be Crushed Out of Shape.

Sectional View
Showing Interior Construction

The Gears are Completely Covered so that Neither Ice or Salt Can Get in Cogs, Nor the Fingers be Accidently Caught in Them The **Hinged Cover** Can be Raised Out of the Way Without Removing it From the Tub. The **Locking Device** is Controlled by a Single Cam, a Simpler and Easier to Operate than Any Other, and Locks the Cover Immovably.

All Inside Parts Coming in Contact with the Cream are **Heavily Tinned,** all Outside Parts are Sensibly and **Heavily Galvanized.** The Ice Space is Arranged to Use the Least Possible Amount of Ice to Freeze in the Least Possible Time. Selected White Pine Tubs, with Electrically Welded Galvanized Steel Wire Hoops, which Will Not Fall Off Nor Break.

Nos	1	2	3	4	6	8	10	12	14
Quarts	1	2	3	4	6	8	10	12	14
Weight, Lbs	7	10	11	14	18	24	30	31	36
Each	$2 40	2.80	3.30	4 00	5 10	6 50	8 40	10 00	11.50

Loose Stock; Wrapped in Heavy Paper

GIANT JERSEY

With Fly Wheel

For Use of Confectioners, Ice Cream Parlors, Soda Founts, Hotels Restaurants and Boarding Houses

The Construction is Similar to the Freezers Above, but Heavier and Stronger. The Gear and Shaft are Connected by Clutches which Engage or Disengage, by Simply Raising and Lowering the Cross Bar. The Fly Wheel or Pulley Remains Stationary at the Side of the Tub.

The Cross Bar is Made to Swing Up Out of the Way to Take Out Cream or can be Entirely Removed

The Cans are made of **Heavy Tinned Steel** with Tinned Malleable Iron Bottom. The Tub is Made of Selected White Pine with Electrically Welded Steel Wire Hoops which will not drop off nor break

With Power Pulley

WITH CRANK

Extra Heavy Construction

Nos	114C	118C	124C
Quarts	14	18	24
Weight, Lbs	48	68	76
Each	$14 00	18 00	23 00

WITH FLY WHEEL

Interchanges with Crank

Nos	114W	118W	124W	132W
Quarts	14	18	24	32
Wheel, Inches	18	21	24	30
Weight, Lbs	68	96	110	140
Each	$18 00	24 00	28 00	34 00

WITH POWER PULLEY

With Extra Strong Shaft Bearings

Nos	114P	118P	124P	132P
Quarts	14	18	24	32
Pulley, Inches	14x6	16x4	16x4	16x4
Weight, Lbs	62	82	95	105
Each	$23 00	28 00	35 00	40 00

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

TOOLS

The KEEN KUTTER Brand
eliminates ALL uncertainty in Tool Buying.
As this brand covers a
Complete Line of Tools,
all you need remember in buying
a tool of any kind, is
the one name

KEEN KUTTER

"The Recollection
of Quality
Remains Long
After the
Price is
Forgotten"

E. C. SIMMONS KEEN KUTTER

BRONSON BROS.

Hardware, Furniture, Implements

SPRINGFIELD, IOWA.

Style "A" Advertisement.

THE BRAND OF QUALITY

E. C. SIMMONS KEEN KUTTER CUTLERY TOOLS

TOOLS CUTLERY

The only Brand in the World covering a COMPLETE LINE of TOOLS and CUTLERY, all of the Highest Quality only. This trade mark on any Tool or piece of Cutlery is a guarantee of FIRST QUALITY

We have a full line of KEEN KUTTER Tools and Cutlery of all styles and sizes—but of One Quality, THE HIGHEST

BRONSON BROS.

HARDWARE COMPANY

PITTSBURG, PA.

Style "B" Advertisement.

STYLES "A" AND "B" ROLL PAPER ADVERTISEMENT PRINTED FREE OF CHARGE.

Size of Complete Advertisement including Customer's Business Card.
Style A—8¼x11 in.
Style B—9 x 9 in

WITH AN ORDER FOR 6 ROLLS OR MORE of any of the various grades of wrapping paper shown in this catalog, we will print your business card and either of the advertisements shown on this page **Free of Charge**—Space for Customer's Business Card not to exceed 3 inches. In ordering be careful to state Style of Advertisement, Number and Width of paper. If any Advertisement other than one of our Regular Style is wanted, we can furnish at the following prices:

PRINTING ROLL PAPER.

Minimum		
2 to 6 Rolls	Per Job,	$4 00
7 to 10 Rolls	Per Roll,	72
11 to 14 Rolls	Per Roll,	90
15 to 49 Rolls	Per Roll,	60
50 to 124 Rolls	Per Roll,	.48
125 to 249 Rolls	Per Roll,	.44
250 Rolls or Over	Per Roll,	.38

The above prices include cost of printing, firm name and business card, but do not include the cost of paper. Orders with printing is free.

Style "C" Advertisement.

Size of Complete Advertisement including Customer's Business Card.

Style C—9x14 in
Style E—9x8¾ in

BRONSON BROS.
HARDWARE COMPANY
SPRINGFIELD, IOWA.

Style "E" Advertisement.

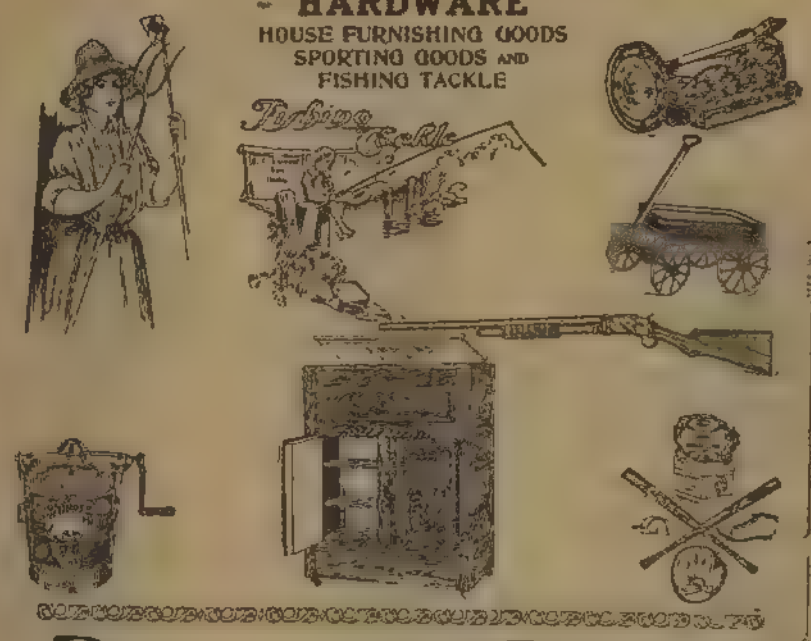
STYLES "C" AND "E" ROLL PAPER ADVERTISEMENT PRINTED FREE OF CHARGE.

WITH AN ORDER FOR 6 ROLLS OR MORE of any of the various grades of wrapping paper shown in this catalog, we will print your business card and either of the advertisements shown on this page **Free of Charge**—Space for Customer's Business Card not to exceed 3 inches. In ordering be careful to state Style of Advertisement. Number and Width of paper. If any Advertisement other than one of our Regular Style is wanted, we can furnish at the following prices:

PRINTING ROLL PAPER

Minimum	
3 to 6 Rolls..Per Job,	$6.00
7 to 10 Rolls..Per Job,	7.20
11 to 14 Rolls..Per Job,	9.00
15 to 49 Rolls.Per Roll,	.60
50 to 124 Rolls.Per Roll,	.48
125 to 249 Rolls.Per Roll,	.44
250 Rolls or over .....Per Roll,	.38

The above prices include **cost of printing firm name** and business card otherwise than our regular style advertising (on which printing is free).



Bronson Bros.

SPRINGFIELD, IOWA

9 in.

Style "L" Advertisement.

Simple, Positive and Substantial Globe Lifting Device—Cannot get out of order
LARGE OIL FOUNTS
Safety Globe Lifting Device—Globe Cannot fall off
Heavy Rigid Tinned Steel Burner With Friction Stop—Will not fall off
Heavy Spring (3½ Coils) to Canopy—Holds Globe Steady and Prevents Rattling
Patent Self-Sealing Ball—Lights Easily and Easy to Drop
GUARANTEED OIL-TIGHT AND AIR-TIGHT.
Clear Lead Flint Globes—Very Tough and Not Easily Broken.
A CLEAR WHITE LIGHT
ALL
SIMMONS
Liberty
Lanterns
HAVE WICKS FITTED READY FOR USE.
The Best Materials Throughout.
Light Giving Qualities Unsurpassed.
Perfect Combustion, Consequently
A CLEAR WHITE LIGHT IS OBTAINED.

J. E. Harlan & Co.

JERSEY CITY, N. J.

Style "M" Advertisement

STYLES "L" AND "M" ROLL PAPER ADVERTISEMENT PRINTED FREE OF CHARGE.

Size of Complete Advertisement including Customer's Business Card:

Style L—6¾x10½ in
Style M—8¾x10½ in

WITH AN ORDER FOR 8 ROLLS OR MORE of any of the various grades of wrapping paper shown in this catalog, we will print your business card and either of the advertisements shown on this page **Free of Charge**—Space for Customer's Business Card not to exceed 3 inches. In ordering be careful to state Style of Advertisement, Number and Width of paper. If any Advertisement other than one of our Regular Style is wanted, we can furnish at the following prices:

PRINTING ROLL PAPER.

Minimum.		
3 to 6 Rolls	Per Job,	$6.00
7 to 10 Rolls	Per Job,	7.20
11 to 14 Rolls	Per Job,	9.00
15 to 49 Rolls	Per Roll,	.60
50 to 124 Rolls	Per Roll,	.48
125 to 249 Rolls	Per Roll,	.44
250 Rolls or over	Per Roll,	.38

The above prices include cost of printing firm name and business card otherwise than our regular style advertising (on which printing is free).

Style "D" Advertisement.

Size of Complete Advertisement including Customer's Business Card:
Style D 9x3 in
Style H 8¾x8¾ in

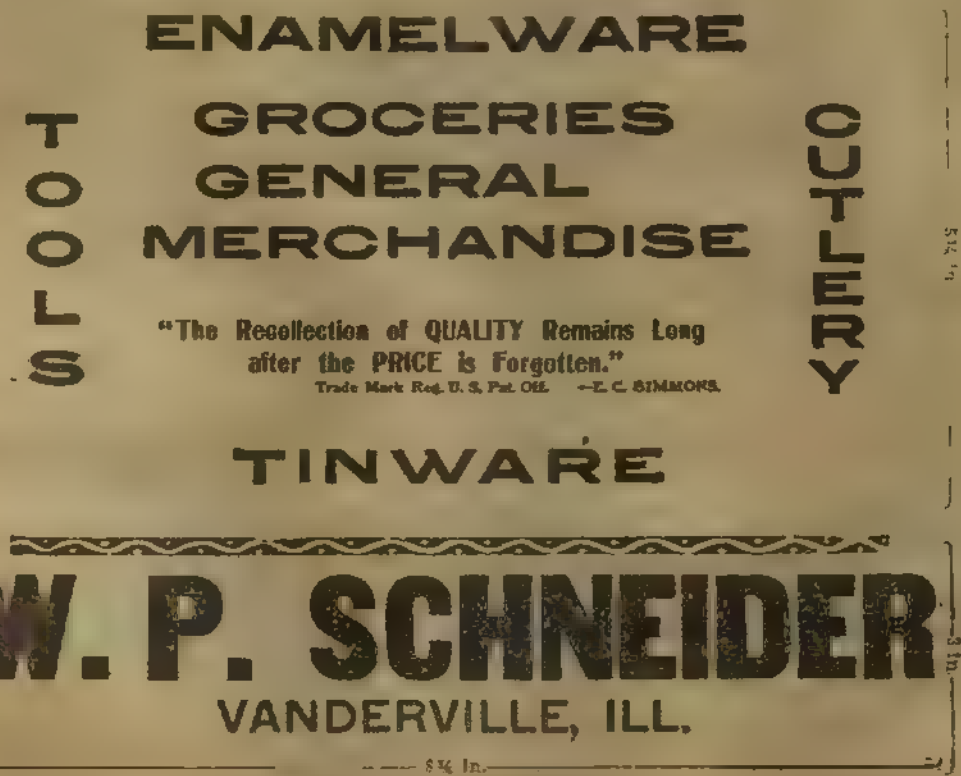
STYLES "D" AND "H" ROLL PAPER ADVERTISEMENT PRINTED FREE OF CHARGE

WITH AN ORDER FOR 6 ROLLS OR MORE of any of the various grades of wrapping paper shown in this catalog, we will print your business card and either of the advertisements shown on this page Free of Charge—Space for Customer's Business Card not to exceed 3 inches. In ordering be careful to state Style of Advertisement Number and Width of paper. If any Advertisement other than one of our Regular Style is wanted we can furnish at the following prices

PRINTING ROLL PAPER.

Minimum		
3 to 6 Rolls	Per Job,	$6.00
7 to 10 Rolls	Per Job,	7.20
11 to 14 Rolls	Per Job,	9.00
15 to 49 Rolls	Per Roll,	.60
50 to 124 Rolls	Per Roll	.48
125 to 249 Rolls	Per Roll,	.44
250 Rolls or over	Per Roll,	.38

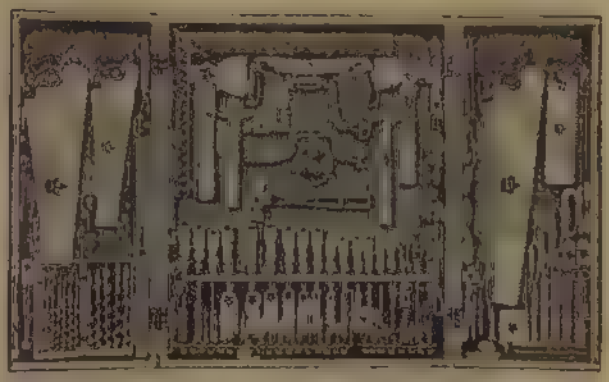
The above prices include cost of printing firm name and business card otherwise than our regular style advertising (on which printing is free)



Style "H" Advertisement.

TOOL CABINET AND WORK BENCH.

KEEN KUTTER



No. K15—*KEEN KUTTER* Wall Cabinet and Work Bench, Complete with 115 High Grade Tools.....Each, $170.00

WALL CABINET—Well Seasoned Hard Maple. Height 36 in.; Width, Open, 60 in.; Width, Closed, 30 in.; Depth, Open, 5 in.; Depth, Closed, 10 in.; Two Panel Box Doors Finished in Natural Colors, Varnished and Hand Rubbed; Brass Hinges and Cylinder Lock, with Two Steel Keys; Fitted with Racks and Hooks to Hold Tools.

WORK BENCH—Special High Grade; Length 52 in.; Width 22 in.; Height 32 in.; Top 2¼ in. Thick, with Recess at Back 7 in. Wide; Drawer 28 in. Long, 19 in. Wide, 6 in. Deep. Fitted with Quick Acting Iron Vises at Side and End; Iron Bench Stop. Has Special Sliding Treadle Constructed of Kiln Dried Hard Maple; Side Vise has Jaws Lined with Hard Maple to Prevent Marring of Work. Tail Vise has Steel Dog to Use in Holding Large Work. Finished in Oil and Shellac.

CONTENTS OF No. K15 *KEEN KUTTER* TOOL CABINET.

1 *KEEN KUTTER* Rip Saw No. K88, 26 in.
1 *KEEN KUTTER* Hand Saw No. K88, 26 in.
1 *KEEN KUTTER* Panel Saw No. K88, 18 in.
1 *KEEN KUTTER* Cabinet Saw No. K91, 12 in.
1 *KEEN KUTTER* Compass Saw No. K93, 12 in.
1 *KEEN KUTTER* Hack Saw No. K138A.
1 *KEEN KUTTER* Coping Saw No. K6
1 *KEEN KUTTER* Saw Set No. K195
1 *KEEN KUTTER* Smooth Plane No. K3.
1 *KEEN KUTTER* Jack Plane No. K5
1 *KEEN KUTTER* Fore Plane No. K6.
1 *KEEN KUTTER* Rabbet Plane No. K78.
1 *KEEN KUTTER* Block Plane No. K15
1 *KEEN KUTTER* Steel Square No. K100.
1 *KEEN KUTTER* Try Square No. K122, 6 in.
1 *KEEN KUTTER* Boxwood Rule No. K520
1 *KEEN KUTTER* Tape Line No. K52
1 *KEEN KUTTER* Level No. KK30; 26 in.
1 *KEEN KUTTER* Sliding T Bevel No. K125, 10 in.
1 *KEEN KUTTER* Marking Gauge No. K
1 *KEEN KUTTER* Mortise Gauge No. K
1 *KEEN KUTTER* Drawing Knife No. K8, 8 in.
1 *KEEN KUTTER* Bench Hatchet No. KNB2.
1 *KEEN KUTTER* Shingling Hatchet No. KNO/1.
1 *KEEN KUTTER* Nail Hammer No. K511¼.
1 *KEEN KUTTER* Nail Hammer No. K513.
1 *KEEN KUTTER* Ball Pein Hammer No. KM3-0.
1 *KEEN KUTTER* Riveting Hammer No. KPR0
1 *KEEN KUTTER* Ratchet Brace No. KR10.
1 *KEEN KUTTER* Plain Brace No. KP6.
1 Set *KEEN KUTTER* Auger Bit No. KS/13.
1 *KEEN KUTTER* Expansive Bit, Large, No. KKL.
1 *KEEN KUTTER* Gimlet Bits, Assorted Sizes.
1 *KEEN KUTTER* Reamer Bit No. K115
1 *KEEN KUTTER* Countersink Bit No. K113.
1 *KEEN KUTTER* Screw Driver Bits No. K103.
1 Set (7) *KEEN KUTTER* Chisels No. KSB. One each ⅛, ¼, ⅜, ½, ⅝, ¾ and 1¼ in.
3 *KEEN KUTTER* Socket Firmer Gouges, One each ¼, ½ and ¾ in.
3 *KEEN KUTTER* Screw Drivers No. K56, One each 3, 5 and 8 in.
1 *KEEN KUTTER* Ratchet Screw Driver No. K211, 6 in.
3 *KEEN KUTTER* Special Slim Taper Files, One each 4 and 6 in., with Handles.
2 *KEEN KUTTER* Mill Files, One each 6 and 10 in., with Handles.
2 *KEEN KUTTER* Flat Bastard Files, One each 8 and 12 in., with Handles.
1 *KEEN KUTTER* Half Round Cabinet File, 12 in., with Handles.
1 *KEEN KUTTER* Round Bastard File, 8 in., with Handle.
1 *KEEN KUTTER* Automatic Drill No. K3.
1 *KEEN KUTTER* Hand Drill No. K4
1 *KEEN KUTTER* Awl and Tool Set No. K55.
1 *KEEN KUTTER* Scratch Awl No. K112.
2 *KEEN KUTTER* Brad Awls No. K110, One each 2/32 and 4/32 in.
1 *KEEN KUTTER* Wing Divider No. K10, 8 in
1 *KEEN KUTTER* Combination Plier No. K160
1 *KEEN KUTTER* Cutting Plier No. KK51
1 *KEEN KUTTER* Carpenters' Pincer No. K505.
2 *KEEN KUTTER* Cold Chisels, One each ⅝ and ¾ in.
1 *KEEN KUTTER* Center Punch No. K215.
3 *KEEN KUTTER* Nail Sets No. K200, One each 1/32, 2/32 and 4/32 in.
1 *KEEN KUTTER* Glass Cutter No. K10.
1 *KEEN KUTTER* Putty Knife No. K103
1 *KEEN KUTTER* Cabinet Scraper No. K15
1 *KEEN KUTTER* Carpenter Pencil No. K10
1 *KEEN KUTTER* Carpenter Apron No. K
1 *KEEN KUTTER* Pipe Wrench No. K14
1 *KEEN KUTTER* Wrench No. KB, 10 in
1 *KEEN KUTTER* Wrench No. K40
1 *KEEN KUTTER* Mounted Oil Stone No. KM3
1 *KEEN KUTTER* Oil Stone Slip No. K138.
1 Quire *KEEN KUTTER* Sand Paper, Assorted.
1 *KEEN KUTTER* Mallet No. K306
1 *KEEN KUTTER* Plumb Bob No. K60
1 *KEEN KUTTER* Tack Claw No. K6.
1 Can Cabinet Glue, 1 pint.
1 Copperite Oil Can No. 12
1 Copperite Oil Can No. 13
1 Miter Box, "Seaveys."
1 Pair Malleable Carriage Clamps, 2½ in.
1 Spool Wire No. 28T
1 Package Nails and Brads.
1 Package Screws, Assorted
1 Package Tacks

Cabinet and Work Bench in Separate Crates for Shipment; Tools Packed in Wood Box.
Weight of Cabinet, Bench and Tools, Crated for Shipment, about 350 lbs

***KEEN KUTTER* TOOL CABINET AND WORK BENCH No. K15**

Put up specially for the amateur artisan—either in city or country. Cabinet is of solid oak, strongly built, filled with *KEEN KUTTER* tools. The bench is made for use and wear—most conveniently fitted with quick operating vises.

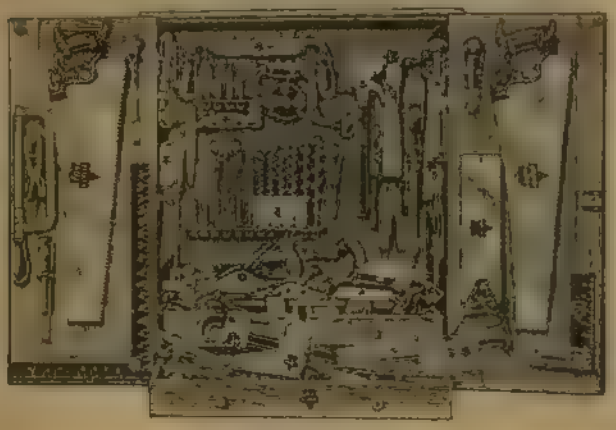
***KEEN KUTTER* WORK BENCHES.**

Built of selected maple, carefully arranged for convenience in tool using. Fitted with perfect acting vises.

TOOL CABINETS.

KEEN KUTTER

Heavy Oak Cabinet, with Two Paneled Doors, Three Inside Drawers, Top Lock, Antique Finish, Finely Varnished and Rubbed, Polished Brass Plated Pull Up Steel Hinges, Two Brass Hangers on Back, Brass Cylinder Lock, with Two Steel Keys; **Complete with Outfit of Highest Grade Tools.**



WALL CABINET.

Dimensions of Cabinet:

Outside 32 In. High, 26 In. Wide, 6 In. Deep. Inside 31½ In. High, 24½ In. Wide, 5½ In. Deep.

No. K11W—**KEEN KUTTER*** Wall Cabinet, Complete with Outfit of 35 Highest Grade Tools, Etc. . . . . **Each $74.00**

CORNER CABINETS.

Dimensions of Cabinet:

Outside 32 In. High, 26 In. Wide at Front, 7 In. Wide at Back, 5 In. Deep at Side, 13½ In. Deep at Center; Inside 30½ In. High, 24½ In. Wide at Front, 6¼ In. Wide at Back, 4 In. Deep at Side, 12 In. Deep at Center.

No. K11C—**KEEN KUTTER*** Corner Cabinet, Complete with Outfit of 35 Highest Grade Tools, etc. . . . . **Each, $74.00**

CONTENTS OF Nos. K11W and K11C *KEEN KUTTER* TOOL CABINETS.

1 **KEEN KUTTER** Hand Saw No. K88, 26 in.
1 **KEEN KUTTER** Rip Saw No. K88, 26 in.
1 **KEEN KUTTER** Compass Saw No. K95, 12 in.
1 **KEEN KUTTER** Hack Saw No. K183, 8 in.
1 **KEEN KUTTER** Cabinet Saw No. K91, 12 in.
1 **KEEN KUTTER** Coping Saw No. K6
1 **KEEN KUTTER** Iron Jack Plane No. K5/C
1 **KEEN KUTTER** Block Plane No. K0½.
1 **KEEN KUTTER** Steel Square No. K18.
1 **KEEN KUTTER** Try Square No. K122, 6 in.
1 **KEEN KUTTER** Boxwood Rule No. K520
1 **KEEN KUTTER** Tape Line No. K52
1 **KEEN KUTTER** Level No. KS/5, 12 in.
1 **KEEN KUTTER** Sliding T Bevel No. K125, 8 in.
1 **KEEN KUTTER** Marking Gauge No. K10
1 **KEEN KUTTER** Drawing Knife, No. K8, 8 in.
1 **KEEN KUTTER** Half Hatchet No. KNH01.
1 **KEEN KUTTER** Nail Hammer No. K512
1 **KEEN KUTTER** Machinists' Hammer No. KM3 0.
1 **KEEN KUTTER** Tack Hammer No. K509
1 **KEEN KUTTER** Ratchet Brace No. KR10.
7 **KEEN KUTTER** Auger Bits No. K8, One each 4/11, 5/16, 6/16, 7/16, 8/16, 10/16, 12/16 and 14/16 in.
1 **KEEN KUTTER** Dowel Bit No. K115.
1 **KEEN KUTTER** Expansive Bit, Large, No. KK1.
3 **KEEN KUTTER** Gimlet Bits, German Pattern, One each 4/32, 6/32 and 8/32 in.
1 **KEEN KUTTER** Countersink Bit No. K112.
1 **KEEN KUTTER** Countersink Bit No. K114.
1 **KEEN KUTTER** Screw Driver Bit No. K103.
6 **KEEN KUTTER** Socket Firmer Chisels, Bevel Edge, No. KSB, One each ⅛, ¼, ½, ¾, 1 and 1½ in.
1 **KEEN KUTTER** Cold Chisel, ¾ in.
1 **KEEN KUTTER** Socket Firmer Gouge, ½ in.
3 **KEEN KUTTER** Screw Drivers No. K50, One each 2, 5 and 8 in.
2 **KEEN KUTTER** Special Slim Taper Files, 4½ and 6 in., with Handles
1 **KEEN KUTTER** Mill File, 8 in., with Handle
1 **KEEN KUTTER** Half Round Cabinet File, 10 in., with Handle.
1 **KEEN KUTTER** Hand Drill No. K3.
1 **KEEN KUTTER** Awl and Tool Set No. K55
1 **KEEN KUTTER** Scratch Awl No. K111.
1 **KEEN KUTTER** Brad Awl No. K110.
1 **KEEN KUTTER** Divider No. K10, 8 in.
1 **KEEN KUTTER** Side Cutting Plier No. K950, 6 in.
1 **KEEN KUTTER** Combination Plier No. K160.
1 **KEEN KUTTER** Carpenters' Pincer No. K305
2 **KEEN KUTTER** Nail Sets No. K200, One each 3/32 and 4/32 in.
1 **KEEN KUTTER** Glass Cutter No. K10.
1 **KEEN KUTTER** Cabinet Scraper No. K25
1 **KEEN KUTTER** Carpenter Pencil No. K107
1 **KEEN KUTTER** Carpenter Apron No. K
1 **KEEN KUTTER** Pipe Wrench No. K14.
1 **KEEN KUTTER** Wrench No. KR, 8 in.
1 **KEEN KUTTER** Wrench No. K46.
1 **KEEN KUTTER** Mounted Oil Stone No. KMS
1 **KEEN KUTTER** Beveled Oil Slip No. KBS.
6 Sheets **KEEN KUTTER** Sand Paper, Assorted.
1 **KEEN KUTTER** Hickory Mallet No. K306.
1 Can Klincher Glue, 4 oz.
1 Copperite Oil Can No. 12.
1 Pair Carriage Clamps, 2½ in.
1 Spool Wire No. 28T
1 **KEEN KUTTER** Tinners' Snip No. K9.
12 **KEEN KUTTER** Hack Saw Blades No. KB, 8 in.
1 Bench Vise No. 12.
1 Package Screws, Assorted.
1 Package Nails and Brads.
1 Package Tacks.

Weight of Cabinet with Tools about 99 lbs.; Crated 119 lbs. One in a Crate

THE *KEEN KUTTER* ADVERTISING.

KEEN KUTTER Advertising is made partly by our advertising men, but mostly by our board of directors and our **manufacturing experts.**

"Our best piece of advertising is the ***KEEN KUTTER*** Guarantee—a policy decided upon by our directorate, and one that has been rigidly adhered to in spirit as well as in letter. Our next best advertising is the showing of our actual factories and working tests. These tests PROVE quality in an unbiased fashion. Our advertising then fits with such material as both the prestige of the ***KEEN KUTTER*** Trade Mark, and with the unfailing force of the ***KEEN KUTTER*** Motto, they have in ***KEEN KUTTER*** Tools also to as strong an advertising proposition as can be found. The ***KEEN KUTTER*** Advertising in store, we have established record-breaking results in selling tools for those who favor us with their patronage and **carry these goods regularly in stock.**

"We want to emphasize the last words of the above sentence to those who carry the goods regularly in stock. While ***KEEN KUTTER*** Advertising flies over the name of the Simmons Hardware Company, and is placed and paid for by us, it is just as much the advertising of the Retail Merchants of this country who are alive to the possibilities of quick, steady sales. Such advertising appeals to their store and to their stock. All ***KEEN KUTTER*** Tools are sold to Retail Merchants. We cannot sell anywhere else but to those who deal with us. We cannot sell to such dealers except where they **re-sell their goods to their customers.**"

"The wise ***KEEN KUTTER*** Merchant will make every one of our magazine advertisements that comes into his town an advertisement for his own store by a tieup that will tie his advertising. We will help him to do this by furnishing **store and window displays and cuts for local papers.**"

TOOL CABINETS.

KEEN KUTTER

Heavy Oak Wall Cabinet with Two Panel Doors, Roll Drawer, 1 in Door, Antique Finish, Varnished and Hand Rubbed, Brass Plated Hinges and Hasp, Two Brass Hangers on Back, Brass Cylinder Lock, with Two Outfit of Highest Grade Tools

Dimensions of Cabinet:

Outside 31 in. High, 22½ in. Wide, 8 in. Deep; Inside 29¾ in. High, 21 in. Wide, 6½ in. Deep

No. K9	*KEEN KUTTER* Wall Cabinet Complete with Outfit of Tools as listed below	Each $46.00

CONTENTS OF No. K9 *KEEN KUTTER* TOOL CABINET.

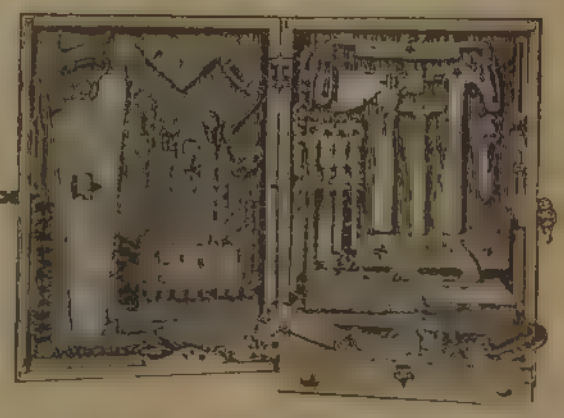
1 *KEEN KUTTER* Panel Saw No. K83, 22 in.
1 *KEEN KUTTER* Coping Saw No. K6
1 *KEEN KUTTER* Compass Saw No. K93, 12 in.
1 *KEEN KUTTER* Hack Saw No. K188.
1 *KEEN KUTTER* Jack Plane No. K26
1 *KEEN KUTTER* Block Plane No. K9½.
KEEN KUTTER Steel Square No. K10
KEEN KUTTER Try Square No. K122, 6 in.
KEEN KUTTER Boxwood Rule No. K62
1 *KEEN KUTTER* Tape Line No. K52.
1 *KEEN KUTTER* Level No. KS/3, 12 in.
1 *KEEN KUTTER* Sliding T Bevel No. K125, 8 in.
1 *KEEN KUTTER* Marking Gauge No. K10
1 *KEEN KUTTER* Drawing Knife No. K8, 8 in.
1 *KEEN KUTTER* Nickel Plated Half Hatchet No. KNH01
1 *KEEN KUTTER* Nail Hammer No. K612
1 *KEEN KUTTER* Riveting Hammer No. KPR0.
1 *KEEN KUTTER* Ratchet Brace No. KR10.
4 *KEEN KUTTER* Auger Bits No. KS, One each ⅜, ½, ¾ and 1 in
1 *KEEN KUTTER* Countersink Bit No. K113.
2 *KEEN KUTTER* Gimlet Bits, German Pattern, One each 4/32 and 5/32 in
1 *KEEN KUTTER* Reamer Bit No. K115.
KEEN KUTTER Screw Driver Bit No. K103.
3 *KEEN KUTTER* Socket Firmer Chisels No. KSB, Beveled Edge, One each ¼, ½ and 1 in.
0 *KEEN KUTTER* Socket Firmer Gauge, ¼ in.
2 *KEEN KUTTER* Screw Drivers No. K615, One each 3 and 6 in.
1 *KEEN KUTTER* Mill File, 8 in. with Handle.
1 *KEEN KUTTER* Special Slim Taper File, 5 in., with Handle.
1 *KEEN KUTTER* Half Round Cabinet File, 10 in., with Handle.
1 *KEEN KUTTER* Awl and Tool Set No. K55.
1 *KEEN KUTTER* Scratch Awl No. K111
1 *KEEN KUTTER* Brad Awl No. K116
1 *KEEN KUTTER* Divider No. K10, 6 in.
1 *KEEN KUTTER* Combination Plier No. K160
1 *KEEN KUTTER* Nail Set No. K200, 2/32 in.
0 *KEEN KUTTER* Glass Cutter No. K10.
1 *KEEN KUTTER* Cabinet Scraper No. K
1 *KEEN KUTTER* Carpenter Pencil No. K107
1 *KEEN KUTTER* Wrench No. KB, 8 in.
1 *KEEN KUTTER* Mounted Oil Stone, No. KM6,
Sheets *KEEN KUTTER* Sand Paper, Assorted.
1 *KEEN KUTTER* Hickory Mallet No. K306.
1 Can Klincher Glue, 2 oz.
1 Copperite Oiler No. 12.
1 Pair Carriage Clamps, 2½ in.
1 Spool Wire No. 28T.
1 Package Screws, Assorted.
1 Package Nails and Brads, Assorted.
1 Package Tacks.

Weight of Cabinet with Tools about 70 lbs; Crated 85½ lbs.

One in a Crate.

TOOL CABINETS.

KEEN KUTTER



Heavy Oak Wall Cabinet, with Paneled Box Door, Inside Drawer 3 in. Deep, Antique Finish, Varnished and Hand Rubbed, Brass Plated Hinges and Hasp, Two Brass Hangers on Back, Polished Brass Cylinder Lock, with Two Steel Keys, Complete with Outfit of Highest Grade Tools

Dimensions of Cabinet:

Outside 27 in. High, 18½ in. Wide, 9 in. Deep; Inside 25½ in. High, 17 in. Wide, 7¼ in. Deep.

No. K7	*KEEN KUTTER* Wall Cabinet Complete with Outfit of Tools as listed below	Each $36.00

CONTENTS OF No. K7 *KEEN KUTTER* TOOL CABINET

1 *KEEN KUTTER* Panel Saw No. K83, 20 in
1 *KEEN KUTTER* Compass Saw No. K93, 12 in.
1 *KEEN KUTTER* Coping Saw No. K6
1 *KEEN KUTTER* Jack Plane No. KJ
1 *KEEN KUTTER* Block Plane No. K9½
1 *KEEN KUTTER* Steel Square No. K
1 *KEEN KUTTER* Try Square No. K122, 6 in.
KEEN KUTTER Boxwood Rule No. K62
3 *KEEN KUTTER* Level No. KS/3, 12 in
1 *KEEN KUTTER* Sliding T Bevel No. K125, 8 in.
1 *KEEN KUTTER* Marking Gauge No. K10.
1 *KEEN KUTTER* Drawing Knife No. K8, 8 in.
1 *KEEN KUTTER* Nickel Plated Half Hatchet No. KNH1.
1 *KEEN KUTTER* No. 1 Hammer No. K612.
1 *KEEN KUTTER* Riveting Hammer No. KPR0.
1 *KEEN KUTTER* Ratchet Brace No. KR10
3 *KEEN KUTTER* Auger Bits No. KS, One each ⅜, ½, and ¾ in
1 *KEEN KUTTER* Countersink Bit No. K113.
2 *KEEN KUTTER* Gimlet Bits, German Pattern, One each 4/32 and 5/32 in
1 *KEEN KUTTER* Screw Driver Bit No. K103.
3 *KEEN KUTTER* Socket Firmer Chisels No. KSB, Beveled Edge, One each ¼, ½ and 1 in.
1 *KEEN KUTTER* Socket Firmer Gouge, ¼ in.
2 *KEEN KUTTER* Screw Drivers No. K615, One each 3 in. and 6 in
1 *KEEN KUTTER* Mill File, 8 in., with Handle.
1 *KEEN KUTTER* Special Slim Taper File, 5 in., with Handle.
KEEN KUTTER Awl and Tool Set No. K55
1 *KEEN KUTTER* Scratch Awl No. K111.
1 *KEEN KUTTER* Brad Awl No. K116.
1 *KEEN KUTTER* Divider No. K10, 6 in.
1 *KEEN KUTTER* Combination Plier No. K160.
1 *KEEN KUTTER* Nail Set No. K200, 2/32 in
1 *KEEN KUTTER* Glass Cutter No. K10
1 *KEEN KUTTER* Cabinet Scraper No. K3
1 *KEEN KUTTER* Carpenter Pencil No. K10
1 *KEEN KUTTER* Wrench No. K40.
1 *KEEN KUTTER* Mounted Oil Stone, No. KM6
6 Sheets *KEEN KUTTER* Sand Paper, Assorted.
1 Can Klincher Glue, 2 oz.
1 Copperite Oiler No. 12.
1 Pair Carriage Clamps, 2½ in.
1 Spool Wire No. 28T.
1 Package Screws, Assorted.
1 Package Nails and Brads, Assorted.
1 Package Tacks

Weight of Cabinet with Tools, about 57 lbs; Crated 72 lbs

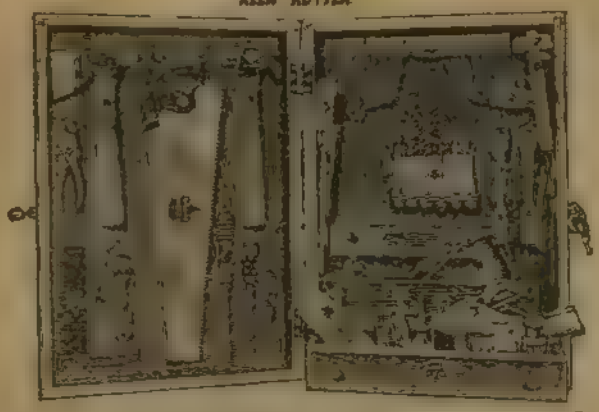
One in a Crate.

KEEN KUTTER TOOL CABINETS.

Graded in size and variety of tools to meet every selection for use. Their pair parts of varied needs but always the pure work of skilled mechanics. Each cabinet and with *KEEN KUTTER* tools carefully selected no matter in the smallest cabinet with a set of tools that will

TOOL CABINETS.

KEEN KUTTER*



Heavy Oak Wall Cabinet, with Paneled Box Door; Inside Drawer, 3 in. Deep; Antique Finish, Finely Varnished and Hand Rubbed; Brass Plated Steel Hinges and Hasp. Two Brass Hangers on Back; Polished Brass Padlock, with Two Steel Keys; Complete with Outfit of Highest Grade Tools.

Dimensions of Cabinet:

Outside 26 in. High, 17½ in. Wide, 3 in. Deep; Inside 24½ in. High, 16 in. Wide, 2⅞ in. Deep.

Each

No. K5—KEEN KUTTER* Wall Cabinet, Complete with 30 Highest Grade Tools, etc.....$27.00

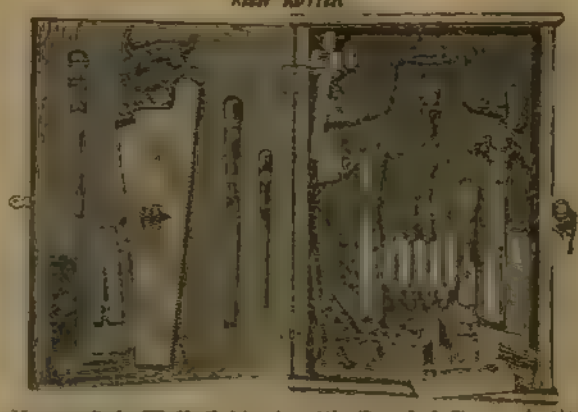
CONTENTS OF No. K5 KEEN KUTTER* TOOL CABINET:

1 KEEN KUTTER Panel Saw No. K88, 26 in.
1 KEEN KUTTER Pad Saw No. KP.
1 KEEN KUTTER Jack Plane No. KJ.
1 KEEN KUTTER Block Plane No. K120.
1 KEEN KUTTER Try Square No. K122, 6 in.
1 KEEN KUTTER Boxwood Rule No. K630.
1 KEEN KUTTER Level No. KS/3, 12 in.
1 KEEN KUTTER Marking Gauge No. K10.
1 KEEN KUTTER Half Hatchet No. KH1.
1 KEEN KUTTER Nail Hammer No. K612.
1 KEEN KUTTER Plain Brace No. KP10.
3 KEEN KUTTER Auger Bits No. K5, One each ⅜, ½, and ⅝ in.
3 KEEN KUTTER Gimlet Bits, German Pattern, One each 4/32 and 6/32 in.
2 KEEN KUTTER Butt Chisels No. KF, One each ⅜ and 1 in., Beveled Edge.
1 KEEN KUTTER Screw Driver No. K615, 6 in.
1 KEEN KUTTER Mill File, 8 in., with Handle.
1 KEEN KUTTER Special Slim Taper File, 5 in., with Handle.
1 KEEN KUTTER Awl and Tool Set No. K55.
1 KEEN KUTTER Scratch Awl No. K111.
1 KEEN KUTTER Brad Awl No. K110.
1 KEEN KUTTER Divider No. K10, 6 in.
1 KEEN KUTTER Combination Plier No. K150.
1 KEEN KUTTER Nail Set No. K200, 2/32 in.
1 KEEN KUTTER Cabinet Scraper No. K35.
1 KEEN KUTTER Carpenter Pencil No. K107.
1 KEEN KUTTER Oil Stone No. K6.
4 Sheets KEEN KUTTER Sand Paper, Assorted.
1 Can Klincher Glue, 2 oz.
1 Copperite Oiler No. 12.
1 Spool Wire No. 28T
1 Package Screws, Assorted
1 Package Nails and Brads, Assorted.
1 Package Tacks

Weight of Cabinet with Tools about 50 lbs.; Crated 63 lbs. One in a Crate.

TOOL CABINETS.

KEEN KUTTER*



Heavy Oak Wall Cabinet, with Paneled Door; Antique Finish, Finely Varnished and Hand Rubbed; Brass Plated Steel Hinges and Hasp; Two Brass Hangers on Back. Polished Brass Padlock, with Two Steel Keys; Complete with Outfit of Highest Grade Tools.

Dimensions of Cabinet:

Outside 24 in. High, 16 in. Wide, 6 in. Deep; Inside 22⅛ in. High, 14½ in. Wide, 4½ in. Deep.

Each

No. K3—KEEN KUTTER* Wall Cabinet, Complete with Outfit of 21 Highest Grade Tools, etc.....$14.00

CONTENTS OF No. K3 KEEN KUTTER* TOOL CABINET:

1 KEEN KUTTER Panel Saw No. K88, 18 in.
1 KEEN KUTTER Smooth Plane No. KS.
1 KEEN KUTTER Try Square No. K122, 6 in.
1 KEEN KUTTER Boxwood Rule No. K630.
1 KEEN KUTTER Marking Gauge No. K10.
1 KEEN KUTTER Half Hatchet No. KH1.
1 KEEN KUTTER Nail Hammer No. K612.
1 KEEN KUTTER Plain Brace No. KP10.
2 KEEN KUTTER Auger Bits No. K, One each ⅜ and ½ in.
1 KEEN KUTTER Gimlet Bit, German Pattern, 4/32 in.
1 KEEN KUTTER Butt Chisel No. KF, 1 in., Beveled Edge.
1 KEEN KUTTER Screw Driver No. K615, 5 in.
1 KEEN KUTTER Special Slim Taper File, 5 in., with Handle.
1 KEEN KUTTER Mill File, 8 in., with Handle.
1 KEEN KUTTER Awl and Tool Set No. K55.
1 KEEN KUTTER Flat Nose Plier No. K089F, 6 in.
1 KEEN KUTTER Nail Set No. K200, 2/32 in.
1 KEEN KUTTER Cabinet Scraper No. K35.
1 KEEN KUTTER Carpenter Pencil No. K107.
1 KEEN KUTTER Oil Stone No. K6.
1 Can Klincher Glue, 2 oz.
1 Copperite Oiler No. 12
1 Spool Wire No. 28T
2 Sheets KEEN KUTTER Sand Paper, Assorted.
1 Package Assorted Screws.
1 Package Nails and Brads.
1 Package Tacks.

Weight of Cabinet with Tools about 32 lbs.; Crated 44 lbs. One in a Crate.

TOOL SETS.

KEEN KUTTER*

Heavy Ash Case, with Hinged Cover; Antique Finish, Finely Varnished and Hand Rubbed; Brass Plated Steel Hinges and Hasp; Polished Brass Padlock, with Two Steel Keys; Complete with Outfit of Highest Grade Tools.

Dimensions of Case:

Outside 27½ in. Long, 9 in. Wide, 5 in. Deep; Inside 26 in. Long, 7½ in. Wide, 3½ in. Deep.

Each

No. K1—KEEN KUTTER* Tool Set, Complete with Outfit of 17 Highest Grade Tools, etc.....$12.50

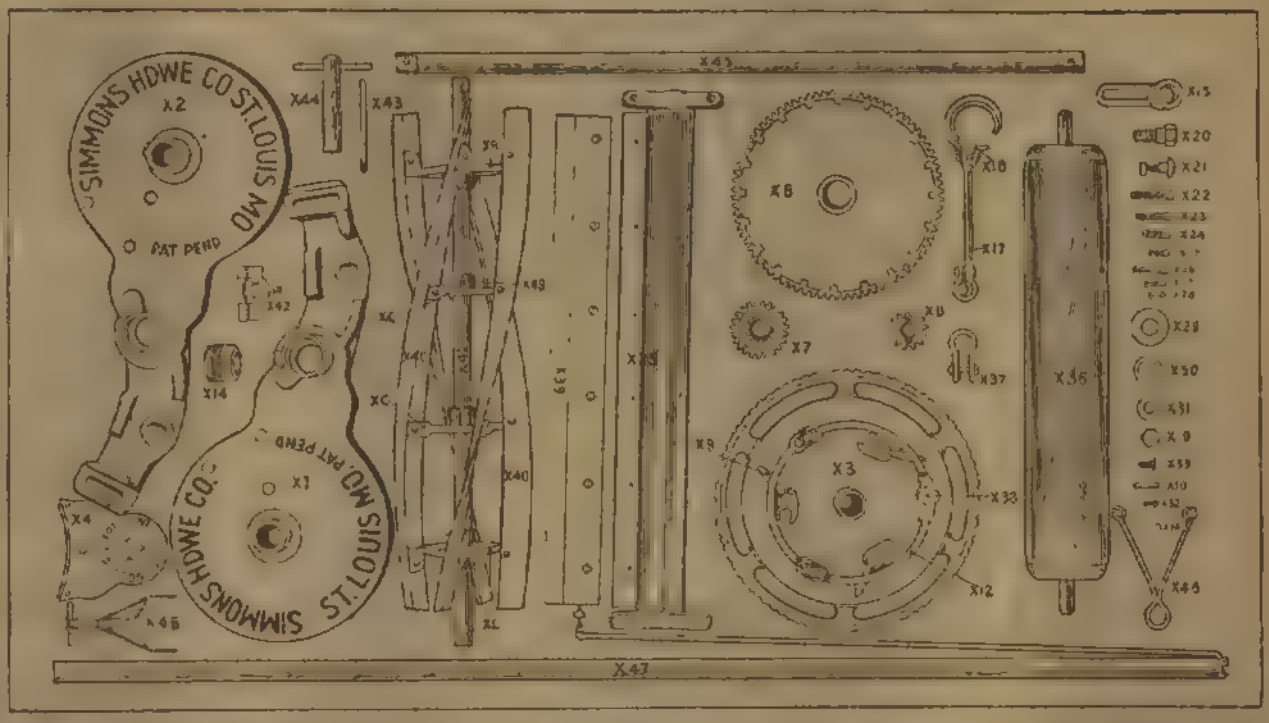
CONTENTS OF No. K1 KEEN KUTTER* TOOL SET:

1 KEEN KUTTER Panel Saw No. K88, 18 in.
1 KEEN KUTTER Block Plane No. K120.
1 KEEN KUTTER Boxwood Rule No. K630.
1 KEEN KUTTER Nail Hammer No. K612.
1 KEEN KUTTER Plain Brace No. KP10.
2 KEEN KUTTER Auger Bits No. K, One each ⅜ and ½ in.
1 KEEN KUTTER Gimlet Bit, German Pattern, 4/32 in.
1 KEEN KUTTER Butt Chisel No. KF, 1 in., Beveled Edge.
1 KEEN KUTTER Screw Driver No. K615, 5 in.
1 KEEN KUTTER Mill File, 8 in., with Handle.
1 KEEN KUTTER Special Slim Taper File, 5 in., with Handle.
1 KEEN KUTTER Flat Nose Plier No. K089F, 6 in.
1 KEEN KUTTER Nail Set No. K200, 2/32 in.
1 KEEN KUTTER Cabinet Scraper No. K35.
1 KEEN KUTTER Carpenter Pencil No. K107.
1 KEEN KUTTER Wrench No. KB, 5 in.
2 Sheets KEEN KUTTER Sand Paper.
1 Can Klincher Glue, 2 oz.
1 Spool Wire No. 28
1 Picture Wire No. 1
1 Package Furniture Nails No. F42.
1 Package Screws, Assorted.
1 Package Nails and Brads, Assorted.
1 Package Tacks

Weight of Case with Tools about 18 lbs. One in a Crate.

EXTRA PARTS FOR LAWN MOWERS.

KEEN KUTTER, TRIPLE GEAR PONY MOWER (1907 MODEL).



	Each
No. X1 —Right Frame, Cast Iron	$0.60
No. X2 —Left Frame, Cast Iron	6.00
No. X3 —Drive Wheel, Cast Iron, both alike	4.50
No. X4 —Gear Shield, Cast Iron, both alike	.70
No. X5 —Large Gear, Cast Iron, both alike	3.00
No. X7 —Intermediate Gear, Cast Iron, both alike	.76
No. X8—Pinion, Cast Iron, both alike	.45
No. X9 —Pawls, Cast Steel	.15
No. X10—Pawls for Cast Pinion No. X8, Steel	.08
No. X12—Ring for shifting Pawls, Cast Iron	1.50
No. X13—Journal Box, Cast Iron	.90
No. X14—Journal Cap, Cast Iron	.60
No. X15—Roller Bracket, malleable Iron	.45
No. X17—Draft Hook, Cast Iron, both alike	1.20
No. X18—Draft Hook Attachment, Cast Iron, both alike	.30
No. X19—Nut, for Wheel Pawl Shifter, Cast	.30
No. X20—Hexagon Head Steel Screw, Fastening Lower Part to Frame	.10
No. X21—Bolt for Roller Bracket No. X15	.16
No. X22—Rocking Adjusting Screw, for Cutter Bar, Steel	.16
No. X23—Center Set Screw, for Cutter Bar, Steel	.16
No. X24—Set Screw Attaching Wheel Axle to Frames, Steel	.10
No. X25—Lower Bar for 25 inch Mower, Cast Iron	5.50
No. X30—Lower Bar for 30 inch Mower, Cast Iron	6.00
No. X26—Cotter Pin for Wheel Axle, Steel	.08
No. X27—Cotter Pin for Roller Bracket Bolt, Steel	.08
No. X28—Cotter Pin for Pawl Shifter, Steel	.05
No. X29—Washer for Cutter Bar Screw, Steel	.10
No. X31—Washer for Pawl Cutter Bolt No. X18 and Draft Bolt No. X21	.08
No. X33—Flat Head Screw, Fastening Stationary Knife to Cutter Bar, Steel	.16
No. X32 —Screw for Fastening Shield No. X4 to Frame, Steel	.08

	Each
No. X34 —Pillow Block for Journal Cap, Brass	$0.08
No. X36 —Wood Roller, 25 in.	2.50
No. X36A—Wood Roller, 30 in.	2.80
No. X37 —Clamp for Holding Draft Attachment No. X18 to Mower	.60
No. X38 —Bolt, for Pawl Shifter	.16
No. X39 —Lower Blade, Steel, Stationary Knife, 25 in.	6.80
No. X39A—Lower Blade, Steel, Stationary Knife, 30 in.	7.50
No. X40 —Spiral Cutter Blade, Steel, 25 in.	1.70
No. X40A—Spiral Cutter Blade, Steel, 30 in.	1.90
No. X41 —Reel Shaft, Steel, 25 in.	2.30
No. X41A—Reel Shaft, Steel, 30 in.	2.70
No. X42 —Oil Screw for Journal Box No. X13	.24
No. X43 —Adjusting Pin for Journal Cap No. X14, Steel	.25
No. X44 —Socket or Cup Wrench, for Adjusting Set Screws, Steel	.60
No. X45 —Wheel Axle, 25 in., Steel	1.50
No. X45A—Wheel Axle, 30 in. Steel	1.65
No. X46 —Wood Handle, With Braces	3.00
No. X47 —Side Draft Attachment, Steel	3.00
No. X48 —Front Draft Attachment, Steel	1.20
No. X49—Set Screw, Fastening Spider to Reel Shaft, Steel	.18
No. X50 —Wheel Washer, Steel	.12
No. X51 —Rod for Front Draft Attachment, 25 in. Steel	1.50
No. X51A—Rod for Front Draft Attachment, 30 in. Steel	1.60
No. XR —Right Hand Reel Spider, Malleable	1.50
No. XL —Left Hand Reel Spider, Malleable	1.50
No. XC —Center Reel Spider, Malleable	1.50
No. X52 —Set Screw Holding Threaded Journal Cap, Steel	.16
Oil Can	.75
Monkey Wrench	1.50

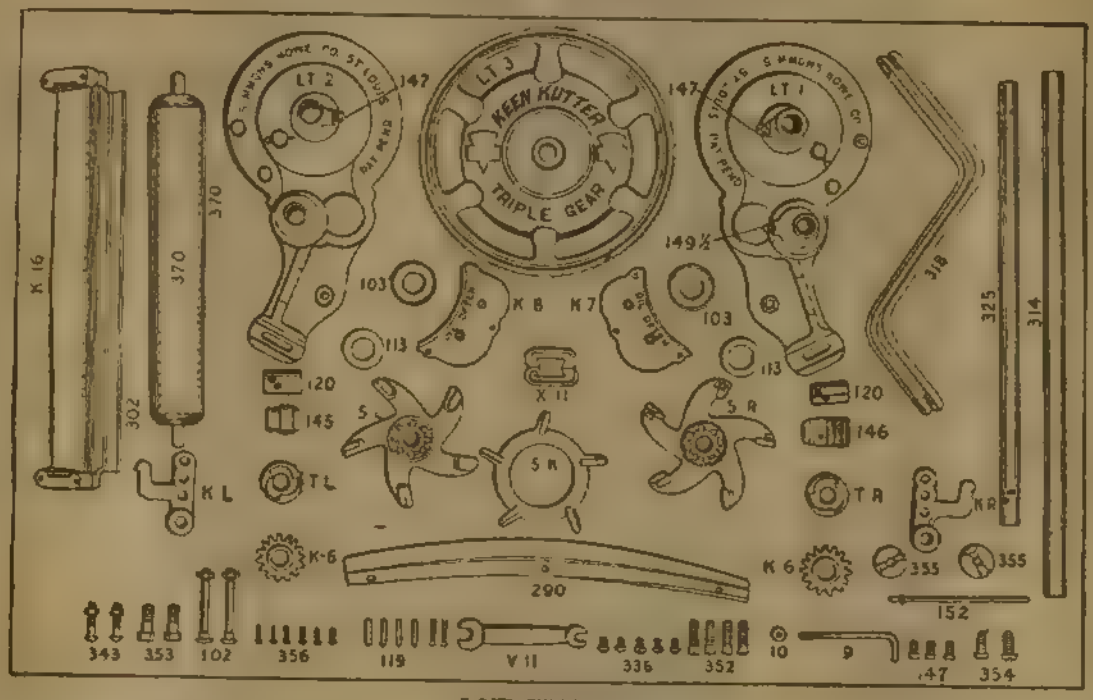
Packed Loose.

IN ORDERING PARTS ALWAYS GIVE THE NUMBER AND NAME OF PART WANTED. EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT SLIGHT COST.

EXTRA PARTS FOR LAWN MOWERS.

KEEN KUTTER* TRIPLE GEAR, BALL BEARING LAWN MOWERS.

(1906 Model Only. Blue and Silver Finish.)



LOW WHEEL.

	Each
No. LT1—Right Frame, Cast Iron	$1.90
No. LT2—Left Frame, Cast Iron	1.90
No. LT3—Drive Wheel, Cast Iron, both alike	1.50
No. K7—Right Gear Shield, Cast Iron	.30
No. K8—Left Gear Shield, Cast Iron	.30
No. TR—Right Hand Pinion, Cast Iron	.38
No. TL—Left Hand Pinion, Cast Iron	.38
No. KR—Right Hand Roller Bracket, Malleable	.30
No. KL—Left Hand Roller Bracket, Malleable	.30
No. K6—Intermediate Gear, Cast Iron	.38
No. 5R—Right Hand Reel Spider, for 5 Knife Spiral Cutter	1.20
No. 5L—Left Hand Reel Spiral, for 5 Knife Spiral Cutter	1.20
No. 5S—Center Spider, for 5 Knife Spiral Cutter	.48
No. V11—Wrench, Malleable	.24
No. X11—Collar for Handle, Malleable	.16

Lower Bar, Cast Iron

Nos.	K10	K12	K14	K16	K18	K20	K22	K24
Length, Inches	10	12	14	16	18	20	22	24
Each	$1.50	1.66	1.80	1.96	2.10	2.30	2.40	2.60

	Each
No. 9—Handle Hook, Cast Iron	$0.16
No. 10—Handle Hook Nut	.05
No. 102—Bolt for Handle Brace	.12
No. 103—Ball Cone, Steel	.54
No. 113—Ball Retainer, Steel	.16
No. 119—Pawl for Cast Pinions, Nos. TR and TL, Steel	.08
No. 120—Bushing for Cast Pinions, Nos. TR and TL, Steel	.30
No. 145—Left Hand Ball Bearing Cone, Steel	.30
No. 146—Right Hand Ball Bearing Cone, Steel	.76
No. 147—Set Screw, Steel, for Holding Frame to Axle and Spider to Reel Shaft	$0.08
No. 149½—Set Screw, Steel, under Steel Cone No. 146	.08
No. 152—Pin Adjusting Cone No. 146 and Turning Washer No. LT3	.08

Reel Complete, 5 Blades.

Nos.	250	251	252	253	254	255	256	257
Size, In.	10	12	14	16	18	20	22	24
Each	$6.70	6.90	7.80	9.00	10.20	11.30	12.40	13.50

	Each
No. 290—Spiral Cutter Blade, Steel, All Sizes (Give Cutting Width of Mower)	$1.20
No. 300—Wood Handle (without Brace)	1.14
No. 302—Lower Blades, Steel (Stationary Knife) Give Cutting Width of Mower.	

Size, Inches	10	12	14	16	18	20	22	24
Each	$1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

	Each
No. 314—Front Axle, Steel, All Sizes (Give Cutting Width of Mower)	$1.14
No. 318—Handle Brace, Wrought, All Sizes (Give Cutting Width of Mower)	.60
No. 325—Reel Shaft, Steel, All Sizes (Give Cutting Width of Mower)	1.15
No. 330—Screw, Steel, attaching Stationary Knife to Cast Lower Bar	.05
No. 343—Bolt for Malleable Roller Brackets	.12
No. 352—Adjusting Screw for No. K Lower Bar	.08
No. 353—Hexagon Head Steel Screw fastening Lower Bar to Ends	.05
No. 354—Screw for Wheel Washer No. 355, Steel	.10
No. 355—Washer for Wheel No. LT3, Steel	.08
No. 356—Screw for No. K7 and K8 Shields, Steel	.05
No. 370—Wood Roller, All Sizes (Give Cutting Width of Mower)	.76
Steel Balls, 5/16 Inch Diameter	.05

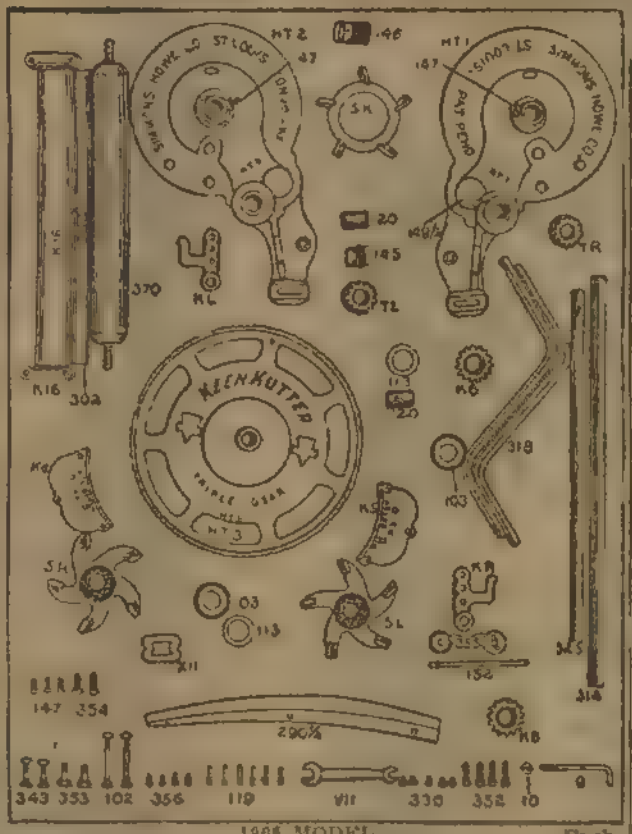
Packed Loose.

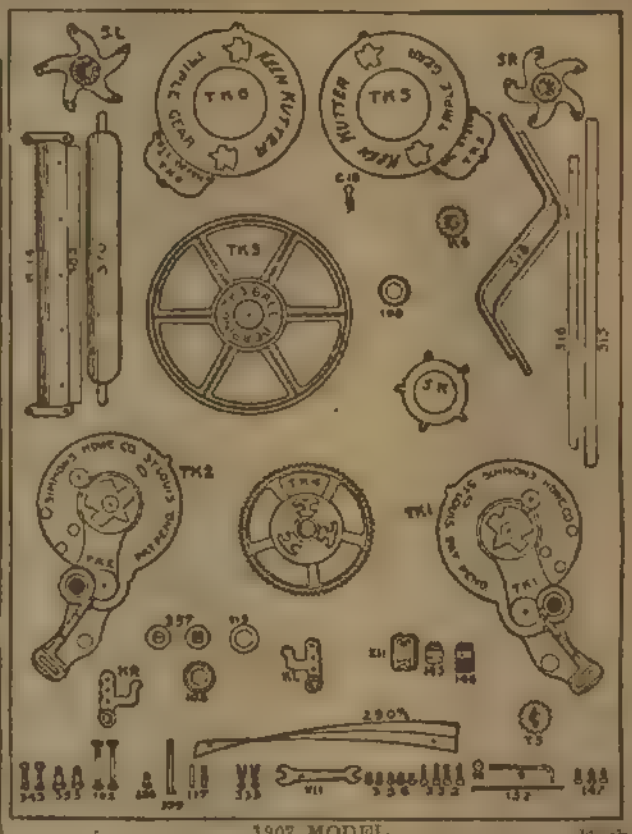
IN ORDERING PARTS ALWAYS GIVE THE NUMBER AND NAME OF PART WANTED. EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT SLIGHT COST.

We carry heavier stocks and a more complete assortment than is shown by any other house. This gives YOU the advantage of OUR having the goods when you want them. The best assortment of goods shown in America is at your disposal.

EXTRA PARTS FOR LAWN MOWERS.

"KEEN KUTTER" TRIPLE GEAR, HIGH WHEEL BALL BEARING LAWN MOWERS.





1906 MODEL.

	Each
No. HT1—Right Frame, Cast Iron, 1906 Model	$1.90
No. 1061 Right Frame, Cast Iron, 1907 Model	1.90
No. 1062 Left Frame, Cast Iron, 1907 Model	1.90
No. 1063 Left Frame, Cast Iron, 1907 Model	1.90
No. HT3—Drive Wheel, both alike, 1906 Model	1.50
No. 1064 Drive Wheel, both alike, 1907 Model	1.50
No. 303—Right Gear Shield, Cast Iron, 1906 Model	.30
No. 1065 Left Gear Shield, Cast Iron, 1907 Model	.30
No. 1066 Right Gear Shield, Cast Iron, 1907 Model	1.00
No. 1067 Left Gear Shield, Cast Iron, 1907 Model	1.00
No. 1B—Right Hand Union, Cast Iron, 1906 Model	.38
No. 1C—Left Hand Cutter, Cast Iron, 1906 Model	.38
No. 1—Pinion on Reel Shaft, Cut Steel, 1907 Model	.38
No. 1A—Intermediate Pinion, Cut Steel, 1907 Model	.38
No. 2—Pawl, 2 Teeth alike, 1907 Model	.08
No. 3B—Right Hand Roller Bracket, Malleable	.30
No. 3C—Left Hand Roller Bracket, Malleable	.30
No. 4—Right Hand Reel Spider, for 5 Knife Spiral Cutter	1.20
No. 5—Left Hand Reel Spider, for 5 Knife Spiral Cutter	1.20
No. 5K—Center Spider for 5 Knife Spiral Cutter.	.40
No. 6—Wrench	.24
No. 7—Collar for Handle Malleable	.10

Lower Bar Cutters.

Nos.	K10	K12	K14	K16
Size, inches	10	12	14	16
Each	$1.50	1.66	1.80	1.96
Nos.	K18	K20	K22	K24
Size, inches	18	20	22	24
Each	$2.10	2.25	2.40	2.60

	Each
No. 9—Handle Hook, Cast Iron	$0.10
No. 10—Handle Hook, Nut	.05
No. 102—Bolt for Handle Brace	.12
No. 104—Ball Cup	.54
No. 117—Bolt for Gear, Steel	.10
No. 137—Pin Holding Pinion, Nos. T5 or Reel Shaft	.08
No. 119—Pawl for Cast Pinions, Nos. TR and TL	.08
No. 120—Bushing for Cast Pinions Nos. TR and TL	.30
No. 115—Left Hand Ball Bearing Cone, Steel	.70
No. 116—Right Hand Ball Bearing Cone, Steel	.70
No. 117—Set Screw, Steel for Cone to Axle	.08
No. 140½—Set Screw, Steel under Steel Cone No. 146	.08

Packed 1000s.

1907 MODEL.

	Each
No. 152—Pin Adjusting Cone No. 146 and Turning Wheel No. HT3	$0.06

Reel Complete, 5 Blades.

Nos.	240	241	242	243
Size, inches	10	12	14	16
Each	$5.70	6.80	7.90	9.00
Nos.	244	245	246	247
Size, inches	18	20	22	24
Each	$10.20	11.20	12.40	13.50

	Each
No. 290½—Spiral Cutter Blade, Steel, All Sizes (Give Cutting Width of Mower	$1.20
No. 290—Wood Handle (without	1.14
No. 301—Lower Blade, Steel (Stationary Knife) (Give Cutting Width of Mower.	

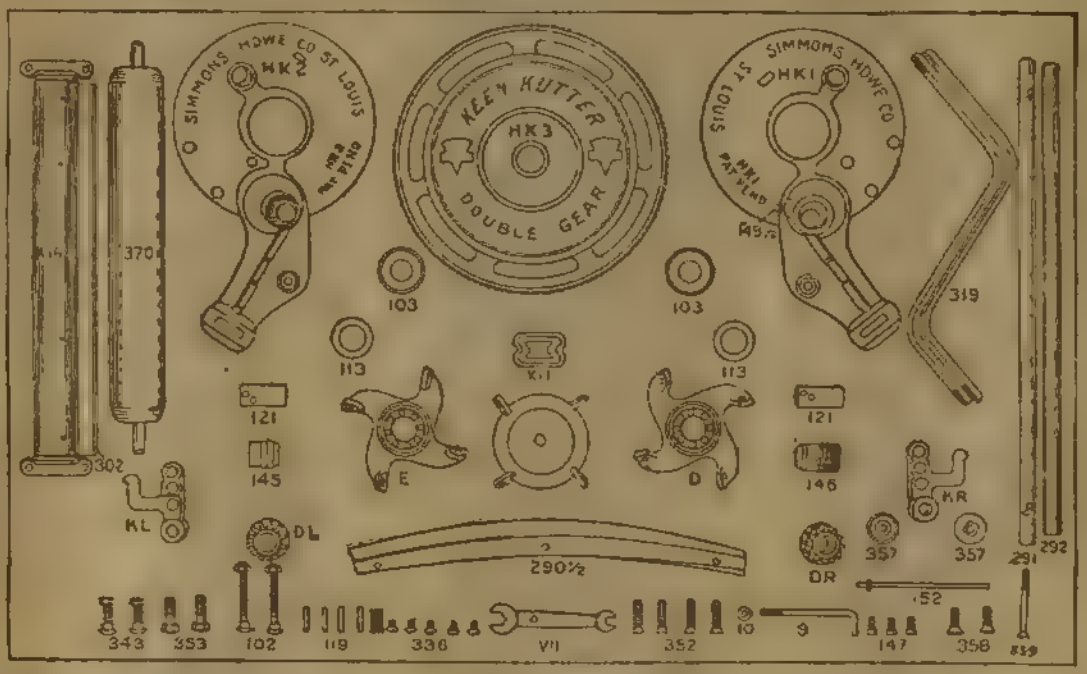
Sizes, inches	10	12	14	16	18	20	22	24
Each	$1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

	Each
No. 314—Front Axle, Steel, All Sizes, 1906 Model (Give Cutting Width of Mower)	1.14
No. 315—Front Tie Rod, Steel, All Sizes, 1907 Model (Give Cutting Width of Mower)	1.14
No. 316—Rear Shaft, Steel, All Sizes, 1907 Model (Give Cutting Width of Mower)	1.14
No. 318—Handle Brace, Wrought, All Sizes, (Give Cutting Width of Mower)	.60
No. 325—Reel Shaft, Steel, All Sizes, 1906 Model (Give Cutting Width of Mower)	1.14
No. 326—Cotter Pin, Steel, 1907 Model	.05
No. 336—Screw, Steel, to Ring Stationary Knife to Lower Bar	.05
No. 343—Bolt for Malleable Roller Brackets	.12
No. 345—Adjusting Screw for No. K Lower Bar	.08
No. 353—Hexagon Head Steel Screw for Cutting Box end Plate	.08
No. 354—Screw for Wheel Washer No. 355, Steel, 1906 Model	.08
No. 355—Washer for Wheel No. 1073 Steel, 1906 Model	.08
No. 356—Screw for Nos. K4, K5, TK5 and TK6 Shells, Steel	.05
No. 357—Washer for Wheel No. TK3, Steel 1907 Model	.08
No. 359—Screw fastening Wheel No. TK3 on Axle, Steel 1907 Model	.08
No. 370—Wood Roller, Malleable (Give Cutting Width of Mower)	.70
Steel Rails, 5/16 inch Diameter	.05

IN ORDERING PARTS ALWAYS GIVE THE NUMBER AND NAME OF PART WANTED. EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT A SLIGHT COST.

EXTRA PARTS FOR LAWN MOWERS.

KEEN KUTTER® DOUBLE GEAR, HIGH WHEEL LAWN MOWERS.



BALL BEARING

	Each
No. HD1—Right Frame, 1906 Model, Cast Iron	$1.00
No. HD2—Left Frame, 1906 Model, Cast Iron	1.00
No. HK1—Cast Iron Right Frame, 1907 Model	1.00
No. HK2—Cast Iron Left Frame, 1907 Model	1.00
No. HD3—Drive Wheel, 1906 Model, Cast Iron, both alike	1.50
No. HK3—Drive Wheel, 1907 Model, Cast Iron, both alike	1.50
No. DR—Right Hand Pinion, 1906 Model, Cast Iron	.38
No. DL—Left Hand Pinion, 1906 Model, Cast Iron	.38
No. Y—R. H. Pinion, 1907 and 1908 Models, Cast Iron	.38
No. Z—L. H. Pinion, 1907 and 1908 Models, Cast Iron	.38
No. KR—Right Hand Roller Bracket, Malleable	.30
No. KL—Left Hand Roller Bracket, Malleable	.30
No. D—Right Hand Reel Spider for 4 Knife Spiral Cutter, 1906 Model	1.20
No. E—Left Hand Reel Spider for 4 Knife Spiral Cutter, 1906 Model	1.20
No. F—Right Hand Reel Spider for 5 Knife Spiral Cutter, 1906 Model	1.20
No. G—Left Hand Reel Spider for 5 Knife Spiral Cutter, 1906 Model	1.20
No. O—Center Spider for 4 Knife Spiral Cutter, 1906 Model	.46
No. G—Center Spider for 5 Knife Spiral Cutter, 1906 Model	.46
No. VII—Wrench, Malleable	.24
No. XII—Cutter for Handle, Malleable	.10

Lower Bar, Cast Iron

Nos.	K10	K12	K14	K16	K18	K20	K22	K24
Cutter Bar, In.	10	12	14	16	18	20	22	24
Each	$1.50	1.66	1.80	1.96	2.10	2.30	2.40	2.60

	Each
No. 9—Handle Hook, Cast Iron	$0.10
No. 10—Handle Hook Nut	.05
No. 102—Bolt for Handle Brace	.12
No. 103—Ball Cone, Steel	.54
No. 113—Ball Retainer, Steel	.16
No. 119—Pawl for Cast Pinions Nos. DR and DL, Steel	.08
No. 121—Bushing for Cast Pinions Nos. DR and DL, Steel	.30
No. 145—Left Hand Ball Bearing Cone, Steel	.30
No. 146—Right Hand Ball Bearing Cone, Steel	.30
No. 147—Set Screw, Steel for Holding Frame to Axle and Spider to Cast Reel Shaft	.08
No. 149½—Set Screw, Steel, under Steel Cone No. 6	.05
No. 152—Pin Adjusting Cone No. 146 and Turning Wheel No. HD	.08

Reel Complete, 4 Blades, 1906 Model.

Nos.	260	261	262	263	264	265	266	267
Size Inches	10	12	14	16	18	20	22	24
Each	$4.20	5.30	6.40	7.50	8.70	9.80	10.90	12.00

Reel Complete, 5 Blades, 1907 Model.

Nos.	270	271	272	273	274	275	276	277
Size Inches	10	12	14	16	18	20	22	24
Each	$6.00	7.20	8.30	9.40	10.50	11.70	12.80	13.90

	Each
No. 290½—Spiral Cutter Blade, Steel, all Sizes, 1906 Model (Give Cutting Width of Mower)	$1.20
No. 301—Spiral Cutter Blade, Steel, all Sizes, 1907 Model (Give Cutting Width of Mower)	1.14
No. 291—Reel Shaft, Steel, all Sizes (Give Cutting Width of Mower)	1.14
No. 292—Front Tie Rod, Steel, all Sizes (Give Cutting Width of Mower)	1.14
No. 300—Wood Handle (Without Braces)	1.14
No. 302—Lower Blade (Stationary Knife,) Steel, All Sizes, (Give Cutting Width of Mower)	[illegible]
No. 319—Handle Brace, Wrought, All Sizes (Give Cutting Width of Mower)	.60
No. 336—Screw, Steel, for Fastening Stationary Knife to Cast Lower Bar	.05
No. 343—Bolt for Malleable Roller Brake	.12
No. 352—Adjusting Screw for No. K Lower Bar	.08
No. 353—Hexagon Head Screw, Steel, fastening Cast Lower Bar to Frame	.08
No. 357—Washer for Wheel No. HD3 Steel	.08
No. 358—Screw for Wheel Washer No. 357, Steel	.06
No. 359—Steel Bolt, (Without Nut), to fasten on Wheel No. HK3 1907 Model	.08
No. 370—Wood Roller, All Sizes (Give Cutting Width of Mower)	.76
Steel Balls, 5/16 in. Diameter	.05

Packed Loose.

IN ORDERING PARTS ALWAYS GIVE THE NUMBER AND NAME OF PART WANTED. EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT SLIGHT COST.

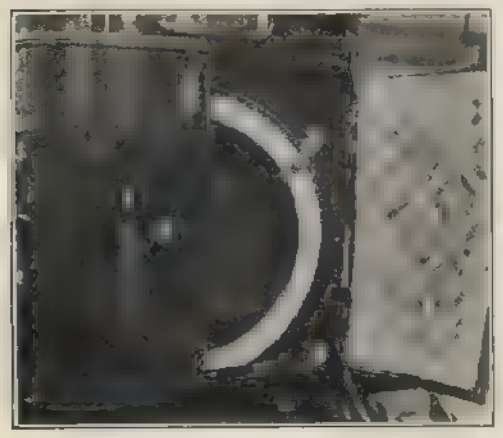
Carriage Work at the Paris Show

By Our Foreign Correspondent

IT will be freely admitted that from the special point of view of the carriage and body builder the Paris Motor Show, which opened its doors on October 17, was a considerable improvement on its predecessor. Last year we found an assemblage of vehicles which, with a few notable exceptions, were looked upon as more or less antiquated in design and poor in finish. This year has seen an entire change in both respects. The French body builders evidently made up their minds to be not only up to date, but rather in advance.

Open Cars.

It is in the open types that the chief developments in design are found. The "Sport" type of body, of which only a few examples were seen last year, has developed particularly rapidly and we find its latest expression in the "motor-boat" type. There were many samples of this in the show and it may be mentioned that some of the best firms have taken up their manufacture, such as Henri Labourdette, Alin Liantard. This type is shown in the accompanying illustrations. In construction, as well as in external appearance, they follow boat-building practice, some very planked "clincher" style and others having an internal skin of diagonal planking and an outer skin of longitudinal flush planking, fastened to ash ribs exactly as in a boat. Generally they were finished in the natural color of the wood, mahogany being most in favor. They are apparently built for speed and without much regard for comfort, such items as wind screens and hoods being conspicuous by their absence. The more purely "sport" type in its latest form is well exemplified by an illustration which is taken from a body shown by the S. P. A. Company. This, it will be seen, is seated for two, but there is a third, "cockpit," seat behind. The absence of doors will be observed, as also the non-resistance wings and method of carrying spare wheel on a stud at the rear. On the Sibaire stand was another very similar model stated to be capable of a speed of 100 kilometers per hour. The sport type of car, in many and various modifications, was to be seen everywhere and was quite one of the features of the show.



Disposition of Extra Tire.
Shown in Rothschild body on Berliet chassis.

The Touring Car of Four or More Seats.

This has now arrived at a fairly settled form, with only such modifications as may be adopted by individual makers to give that little touch of "character" so dear to the heart of the average coach builder. One typical model has as the leading features a nicely tapering bonnet merging into a deep shuttle and flush sided body. The elbow line is preferably quite straight, but frequently curves upwards at the rear into the more or less upwardly curved top side of rear panel. Wind screens and cape-cut hoods are almost invariably fitted to touring cars and considerable attention has been paid since the last show to the design of these accessories. The "one-man" hood has been revised and improved and is now almost exclusively used, whilst the old-fashioned wood-framed wind screen has been replaced by types in which very narrow and light looking metal frames are used. Also, the wood filling piece between the lower edge of the screen and the curve of the scuttle is giving place to a frameless piece of glass, cut to the required shape, resting on a strip of rubber. Some bodies have the top side beveled off inwards and the bevel worked into the hinge line on the bonnet. Aft of the rear doors the top of the bevel is hinged, in sec-

Typical Interior Trimming.

PARIS SALON
1913

tions, to form a lid for a recess in which the hood stows away. The lower (fixed) half of the wind screen, which from its transparency is invisible though it is actually in place, is cut to fit the top of the scuttle as above described. Attention may be drawn also to the large sized ventilator on the side of the scuttle, and to the fact that the doors have concealed hinges, this latter being a feature that has been considerably developed during the past year.

Two Seaters.

Strictly speaking, there were very few two seaters in the show, for nearly all which were nominally of this class had dicky seats, or their equivalent, "cockpit" seats. Seeing that an outstanding feature of the exhibition was the large number of "small cars," there were many examples of the two seater, and many and various were the forms which constructors had evolved in trying to bring them into line with the present-day demand for so-called "'torpedo" design. But with such short bonnets and short chassis, and the impossibility of reducing width in suitable proportion, the result can hardly be called artistic. Many were like elongated eggs, but others, by the adoption of suitable fish-tail rear parts, had succeeded better.

Closed Cars.

Doubtless because the enclosed car—which for years has been much used in Paris—had previously been more fully developed, there is less change to record in the type this year. The chief advance has been in the almost universal adoption of the flush side and the harmonizing of the body lines with those of the bonnet and scuttle. The interior drive, as in coupés and saloon limousines, has apparently increased in popularity and there were many fine examples of those types. The moderate sized saloon limousine, with one centrally positioned door on either side and having long front and rear quarter lights, makes a nicely balanced effect, and this also is a favorite type. These types are well illustrated in our page cut. One of these deserves particular attention from the comparative lowness of the roof and the fact that this latter, together with the rear quarter and back panel, are of leather stretched over battens which are visible inside. Another shows that French people have not yet lost their fondness for imitation cane finish

Storage of Spare Wheel.
Shown in Paris by Lampleigh & Company.

Landaulette and All-Weather Types.

Landaulettes were on the whole rather scarce, and with one exception require no special notice. The exception was a particularly fine piece of work by the Maison Labourdette—which must not be confused with Henri Labourdette. This was a six-seated body with a particularly long rear quarter light, giving it quite the appearance of a limousine. The difficulty with these very long quarter lights is to design the head so that it will fold back in a reasonably sightly manner, and the builders are generally averse to demonstrating. Cabriolets were more plentiful. One was noticed which had a rather deeply domed roof and shallow in front. The latter portion was made permanent, the roof section forming a locker for stowage of the cantrail, which was made to detach and fold in half with a view to less cumbrous folding of the head.

Of the "all-weather" body, which might be described as a cross between a cabriolet and a touring car, there were a good many examples and it may be taken that the type is one which is likely to enjoy an increasing popularity. The object is to obtain the advantages of a cabriolet while getting rid of the great weight and expensive construction of that type. Some makers adopt light, detachable pillars and drop lights, but the most practical arrangement noticed was one in which the windows are built up in a three-part hinged frame, the middle portion attaching fixedly to the body by clips and screws, while the two hinged end parts rest on and open with the doors. When not in use the whole folds up and drops into the side between the front and the rear doors

Decorations and Trimming.

Although on the whole, colors, especially in the better class of enclosed cars, were quiet and restrained, there was nothing like monotony in this respect, and some of the effects were more wonderful than beautiful. For example, one open touring car was painted a sort of pink gray with a belt panel of bright tartan! The use of richly inlaid wood paneling for limousines was less frequent than had been anticipated, but there was one very beautiful example by Drignet and Company in which roof, side and rear panels, front (under the cross light) and door panels were in dark walnut very richly and elaborately inlaid with light colored woods, gunmetal and pearl, in a floral design. But for the most part the usual cloth trimmed interiors were seen, with leather in appropriate shades for open cars.

Frameless lights were practically universal. Window lifts have evidently not

yet arrived at a stage of success combined with cheapness sufficient to warrant wide adoption. The "Hera" and the "Ideal" were to be seen here and there, and on the stand of Dietrich & Company was to be seen a lifter with a small electric motor concealed in the door frame, which raised or lowered the window by simply pressing one or other of two buttons. Although effective, it was somewhat noisy. A simple spring counterbalance with rubber faced check pad is perhaps as good and cheap as anything.

Wings and Running Board.

The crudeness and general all around badness of the wings throughout the show—with comparatively few exceptions—was truly surprising. It is a point to which French body builders would do well to address themselves at once. In running boards some preference was shown for the bar and space variety, or having deep longitudinal grooves giving the same effect. To prevent mud splashing up from below, which occurs with the former, some builders cut the sides of the bars at an angle so that they overlap. The deep grooves only serve to collect dirt, and it is difficult to find any advantage in either type over the solid board covered with ribbed or diamond-checkered aluminum sheeting.

Storage of Spare Wheels.

Two methods of disposing of the spare wheel are depicted in our cut, the former by Lampleigh & Company and the latter a Rothschild body on Berliet chassis. The first seems practicable, but the second not so. To make two such large doors free from rattle and reasonably proof against water and dust is hardly possible. The cost must be considerable and the body construction weakened; also it prevents the use of a rear luggage grid.

A New British Motor Fuel

Produced at Twelve Cents Per Gallon and Stated to Be Equal to the Best Spirit

By Our Foreign Correspondent

One of the effects occasioned by the phenomenal rise in the price of petrol has been the stimulus which inventors have received to increase their efforts to discover some cheaper form of the motor fuel, which will give results equal to those of the best petrol. So far, however, apart from benzol, which is almost as expensive as spirit, the only substitute yet produced which appears to hold commercial possibilities is a motor fuel known as Economin. Under the title of Economin Motor Spirit Company, Ltd., a company has just been registered in London with a share capital of approximately $1,681,000. Among the list of Directors are to be found several names well known in commercial motor circles. The object of this concern is to acquire the patent rights for the production of Economin motor fuel in Great Britain and the Colonies, and it is considered probable that before long large quantities will be manufactured and placed upon the market at a price far below that of petrol at the present time

The Process of Manufacture.

The Economin spirit is a distillate from a mixture consisting of 80 per cent. kerosene and a 20 per cent. solution consisting of concentrated sulphuric acid, benzine and benzol containing resin and picric acid in certain specific amounts, the proportion by volume of benzine plus benzol to the kerosene being exactly four volumes of the former, to twenty-one volumes of the latter. The whole is then thoroughly mixed, transferred to a suitable vessel and allowed to stand for several hours. The mixture thus obtained is then transferred to a distilling apparatus and distilled at temperatures varying from 225 deg. C to 240 deg C. The distillate yielded at these temperatures, which amounts to about between 75 and 80 per cent. of the total volume of the mixture operated upon, is Economin motor spirit. By carrying the distillation process still further, an addition yield of about 10 to 15 per cent. of distillate can be obtained, but it is doubtful if this fraction will be of service as a motor fuel.

The Cost of Producing Economin.

The productive cost of this fuel, assuming the price of kerosene at $16.40 per ton, and a yield of 80 per cent. of Economin from the ingredients employed, is calculated not to exceed $.12 per gal., and it is estimated that if put on the market at a profit of $.06 per gal., the company would reap a very handsome profit.

R. A. C. Tests.

It is stated that when using Economin no carburetor adjustments are required, and the motor can be started just as easily as on petrol. Two comparative tests of 1,000 miles each have been carried out on a 15 h. p. car with the above fuel and Shell spirit, the figures obtained proving that of the two Economin is superior both in regard to power and low consumption. The tests were carried out under the supervision of the Royal Automobile Club and over the Club's standard routes.

Rochester Motor Fire Pump Company, Rochester, N. Y., manufacturer of automobile fire engines, has selected the U-S-L Electric Starter and Lighter as standard equipment.

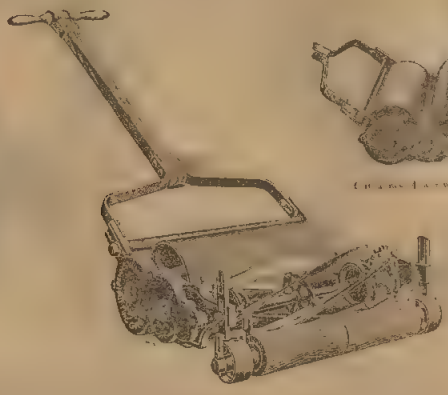
PUTTING GREEN MOWERS

PENNSYLVANIA

Complete With Grass Box

Note

The Cr[illegible] which are fur[illegible] Mower are used as two patterns—the first prepared [illegible] Small [illegible] Deflector, to deflect the Grass toward the Box. They are made without Mulching Wood Frame [illegible] Artificial Deflector



Cut shows Mower with Grass Box attached

Cut shows Mower with Deflector attached

The [illegible] manufacturers [illegible] have made a careful study of the Pennsylvania Ground Horse Mower [illegible] and have succeeded in producing a machine [illegible] for [illegible] rollers [illegible] and [illegible] wheels [illegible]

The Pennsylvania Putting Green Mower is [illegible] of the Pennsylvania Ground Horse Mower [illegible]

The Shafts, Handles [illegible] Frames, belonging to Adjustment [illegible] and the Cutting [illegible] are Self Sharpening. [illegible] Pitch [illegible] Pitch [illegible] Grease Cups [illegible] Bearings [illegible] Rear Roller [illegible] Front Roll [illegible] cast steel parts.

All Blades in this Mower are Crucible Tool Steel, Oil Tempered and Harvested

Diameter of Rollers 7 inches Diameter of Cylinder 5 ½ inches, Six Blades

Width of Cut, Inches	14	16	18
Shipping Weight, [illegible]	[illegible]	[illegible]	[illegible]
Each	33 50	35 00	37 00

ROLLING STORE OR SHELF LADDERS

MILBRADT

No 1

No. 2

No. 15

The Milbradt Rolling Step Ladders are made to Order of Good Oak Lumber in the best possible workmanlike manner, and are finished in first class style Are shipped complete and ready for use and guaranteed to be perfect in every respect.

No. 1 BENT LADDER

Runs on Steel Track which is fastened to Shelving near the top and has Rubber Rollers attached to the lower end which runs against the edge of Base Shelf. This Ladder is the best for all around purposes where Shelving is reasonably strong.

	Each
No. 1—Bent Ladder, Made of Oak, Complete with Fixtures	$11.00
	Per Foot
No. 01—Regular Steel Track, Complete with Brackets, for No. 1 Bent Ladder	$0 20

No. 2 BENT LADDER

Intended for Shelving which is not very strong as most of the Weight of the Ladder and Operator rests on the Floor Runs on a Hardwood Track fastened to shelving near the top to guide it and has attached at the bottom Cushion Tired Wheels which run on the Floor, but no Track is used on the Floor.

	Each
No. 2—Bent Ladder, Made of Oak, Complete with Fixtures	$11 00
	Per Foot
No. 02—Hardwood Track, Complete, for No. 2 Bent Ladder	.$0.15

No. 15 TROLLEY LADDER

This Ladder has suitable Fixtures with Wheels at the top which run on a Steel Track fastened to ceiling Also as Cushion Tired Wheels attached at the bottom which run on the Floor This Ladder is very strongly built and is especially adapted for Hardware Stores or any place of business where heavy goods are handled.

	Each
No. 15—Trolley Ladder, Made of Oak, Complete with Fixtures	$10 00
	Per Foot
No. 015—Steel Trolley Track, Complete with Brackets, for No. 15 Trolley Ladder	$0.20

To order No 15 Trolley Ladder it is only necessary to give the exact height from floor to ceiling and the exact length of each line of track wanted.

HOW TO ORDER Nos. 1 AND 2 LADDERS

Give the exact height from floor to top of base shelf the exact width or projection of base shelf and then the exact height from top of base shelf to the top of shelf to which track is to be fastened and the track should be fastened to a shelf that is about 3 ft down from the top Steel track for Ladder No 1 is 1 in. in diameter and therefore does not block up any space when fastened up opposite the edge of shelf When ordering steel track give the total length of each line of shelf second, give the distance from center to center of uprights and state how many brackets are required to hold up the steel track For regular steel track the brackets cannot be more than 4 ft apart.

To order Wood Track for Ladder No. 2 it is only necessary to state the number of feet required.

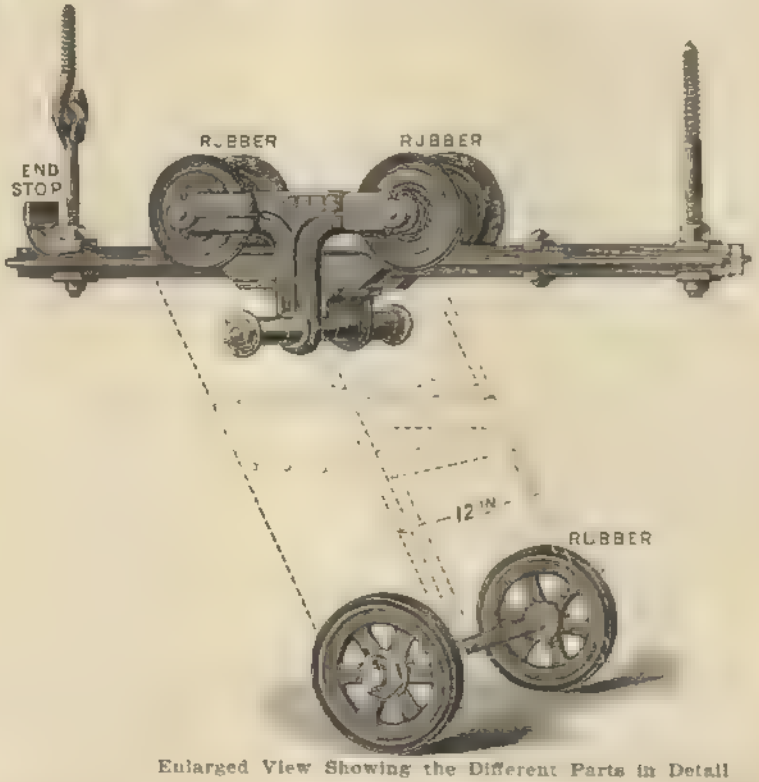
Note—Not Carried in Stock. Sold for Direct Shipment from Factory Only

HUEY & PHILP HARDWARE COMPANY.

ROLLING STORE LADDERS

MYERS' CUSHION TIRE

Cut to the left illustrates a view of the Myers' Cushion Tire Store Ladder, showing the Track, Hanging Hooks, End-Stop, Upper and Lower Trolleys, all complete mounted ready for use.



Enlarged View Showing the Different Parts in Detail

	Each
Myers' Ladder and Trolley Complete, Ready to be Set Up.....	**$40.00**

Average Weight Each, Crated, 60 Pounds

TRACK FOR MYERS' CUSHION TIRE STORE LADDER

	Per Foot
Myers' Double Angle Steel Track, Complete with Hangers.....	**$0.60**

The Ladder is constructed of the best clear Georgia pine, nicely finished filled and varnished, and has open panel sides. The width of the ladder is 12 inches

The Trolley is self-adjusting, fitted with turned steel bearings and . inch anti-rattler wheels, turned and bored on lathe and fitted with special rubber tires.

The Floor Travelers are [illegible] drum composed of metal sides with rubber cushion tires clamped in such position as to be impossible to get off or come loose. These wheels are placed on a steel axle. In operation this equipment is noiseless, and finds easy preference over other makes on that account.

The Track is the well known double angle steel rail which is very neat and strong and is suspended from ceiling by means of lag screws either jointed or rigid or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be leveled on an uneven ceiling without the least trouble and without any blocking or bridging, as is the case in many other tracks.

DIRECTIONS FOR FITTING MYERS' CUSHION TIRE STORE LADDER

Give the exact height of the ceiling and the length of each track and the fitting will be done at factory. If the height of the ceiling varies, give the height of ceiling at each end and center [illegible] of track.

Note—Not Carried in Stock, Shipped Direct from Factory

ROLLING STORE LADDERS

MYERS' CUSHION TIRE

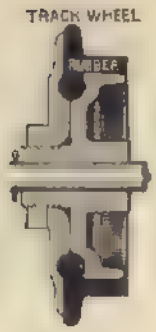


Fig. 1254

The Rubber Tires used on Myers' Store Ladders are made of a specially prepared rubber, shaped according to a patented design Are held securely in position by the wheel castings. By means of these Rubber Tires the ladder is made practically noiseless. They also do away with any jar or unpleasant sensation in running the ladder over an uneven surface

Fig. 1254 illustrates the **Trolley Wheel** as used on the overhead track on Myers' Store Ladder. It is 3½ inches in diameter. The cut illustrates the wheel in all its details. It is made of two parts which clamp around the enlarged portion of the rubber tire, and are held together by means of a nut and strong thread, holding the tire securely in position and preventing it from expanding or getting out of position under any circumstances. The wheel revolves on a turned steel axle.

Fig. 1255 represents the **Floor Wheel** as used on Myers' Store Ladders and is constructed exactly the same as the Trolley Wheel above described. It is 5 inches in diameter.

Fig. 1255

Fig. 1257

Fig. 1092

Fig. 1257 illustrates a section of the side of the Ladder, showing the end of the step and the manner in which it is connected to the side of the ladder by means of a Patented Malleable Dowel Tee. Each of the turned steps are fastened at each end in this manner. The Dowel Tee engages the outer side of the ladder frame, passes through and through the step and is attached by means of a heavy screw, thus preventing the ladder from spreading or springing away from the end of the step. The tread of the step is 3½ inches deep. This cut also illustrates the panel opening in the side of the ladder, which adds to its neatness of appearance.

Fig. 1092 illustrates the **Roller** for side of the ladder. This Roller is also fitted with rubber tire and is intended to prevent the ladder from running against the counter or shelving when used on an uneven floor. It is not included in the regular price of the ladder and is never used except under the above conditions, viz: on a floor that slopes toward the shelving. When furnished it is charged for extra.

Fig 1042

Fig. 1258

Fig. 1259

Fig. 1168

Fig. 1042 represents the **End Stop**. Two of these are furnished with each carrier, and are designed to prevent the trolley from running off the track at either end.

Fig. 1258 illustrates the Hanging Hook as used in connection with a flanged bolt that is attached to the ceiling by means of two heavy wood screws.

Fig. 1259 represents the jointed or screw eye Hanging Hook which is regularly used for erecting Myers Store Ladder Track, and is always furnished with the track, unless otherwise specified on order.

Fig. 1168 represents Hanging Hook with lag screw point. This forms a rigid track.

The Myers' Double Angle Steel Track as furnished for Cushion Tire Store Ladders, is both substantial and simple in construction. When the track is clamped together it becomes very stiff and is the most compact device known for the purpose. It is easily put together, no riveting, a wrench is all the tool needed. The rods are made to special order and are what is known as rolled carbon. They are uniformly stiff and hard

HUEY & PHILP HARDWARE COMPANY.

SHOW CASES

No. 138—Square Front Counter Case

Made of Oak, Antique Oak Finish, 28 in Wide on Base, Double Strength Glass in Top, Front and Ends, American Mirror Sliding Doors in Rear.

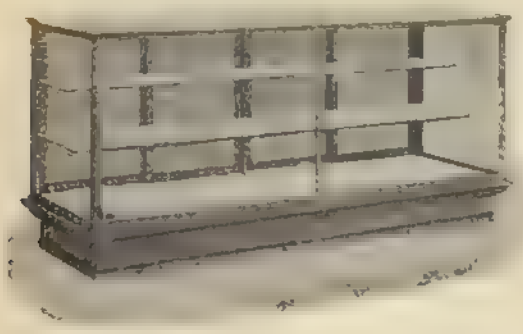
Length, Feet.....	3	4	5	6
15 in. High...Each,	$ 9.50	12.00	13.55	16.45
17 in. High...Each,	9.90	12.60	14.30	17.20
19 in. High...Each,	10.85	14.65	16.25	19.75
24 in. High Each,	13 70	18 00	21 65	24 75

Length, Feet	7	8	9	10
15 in. High. Each	$18.80	22 65	23 50	28 30
17 in. High Each	19 55	23 30	24 70	29 65
19 in. High. Each	23 15	28 35	27 50	33 00
24 in. High. Each	27 85	33 95	35 70	41 40

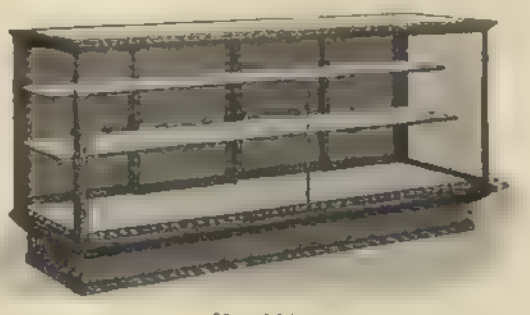
No. 637—Cutlery Counter Case

Made of Oak, Antique Oak Finish 17 in High, 28 in Wide on Base, Plush Covered Platform Divided into Spaces for Cutlery, American Mirror Sliding Doors in Rear, Rear of Platform has Drawers Divided into Compartments for Keeping Stock.

Length, Feet.....	3	3½	4½	6
Each	$19.20	22.00	29.25	37.45



No. 1004



No. 1006

No. 1004—Floor Case, 42 in. High, 26 in. Wide, Shipped Knocked Down

Made of Oak, Antique Oak Finish, Receding Base, Plate Glass Top Overlaps Wood Frame on All Sides, has Ground and Polished Edges, Fastened with Nickel Plated Clasps, no Wood Shown on Top, Front and End Lights are 30 in. High, Rear has D. S. Glass Sliding Doors and Run on Ball Bearing Rollers and Steel Track, Two Wood Shelves 10 and 14 in. Wide, Adjustable Nickel Plated Shelf Brackets.

Length, Feet	4	5	6	7	8	9	10
Plate Top D S Front, Ends and Doors .Each,	$57.00	65.00	72.00	85.00	91.00	98.00	108.00
Plate Top and Front, D S Ends and Doors Each,	66.00	76 00	86.00	101 00	111 00	122 00	136 00
Plate Top, Front and Ends D. S Doors...Each,	72.00	82 00	92.00	106 00	117 00	128 00	142.00

No. 1006—Floor Case, 42 in. High, 26 in. Wide, Shipped Knocked Down

Made of Oak, Antique Oak Finish Receding Base Inlaid Glass Top, Plate Glass has ½ in Bevel the Front and End Lights are 30 in High, Rear has D S Glass Sliding Doors and Run on Ball Bearing Rollers and Steel Track, Two Wood Shelves 10 and 14 in. Wide. Adjustable Nickel Plated Shelf Brackets.

Length, Feet	4	5	6	7	8	9	10
D S Top, Front Ends and Doors Each,	$45 00	51 00	56 00	62 00	67 00	72 00	77 00
Plate Top, D S Front, Ends and Doors Each,	52 00	61 00	69.00	78.00	86 00	93 00	102 00
Plate Top and Front, D. S. Ends and Doors. Each,	61.00	71.00	88.00	95.00	106.00	117.00	128.00
Plate Top, Front and Ends D S Doors Each,	67 00	77 00	89 00	101 00	112 00	123 00	134 00

Note—Not Carried in Stock. Sold for Direct Shipment from Factory Only

EXCLUSIVE F[illegible]RES OF RUGBY B[illegible]

DESIGN "ORIGINATED"

FRAME REINFORCEMENTS

All Frame Reinforcements are Extra Long and Well Brazed. The Joints are Carefully and Snugly Fitted Before Brazing, thereby Insuring a Smooth Tight Joint. All Joints are True so that there will be no Undue Strain on Any One Part and to Preserve the Symmetry of the Frame

ENAMEL

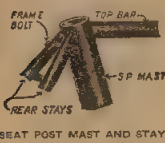
Four Coats Baked on and Hand Rubbed. We Use the Best Quality Long Wearing Durable Enamel Will Not Check or Chip

HEAD FITTINGS

These Fittings are Made of the Best Quality Material Throughout. The Cups Especially are Given the Most Careful Attention Because it is here where the Most Strain and Wear Comes.

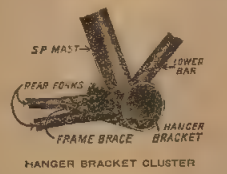
FORK

This Illustration Shows the Different Parts of a Single Crown Fork. This Style Fork is Most Commonly Used, but to keep pace with Improvements we have made in other parts of Bicycle we now Equip our Rugby Nos. 370B, 376B and 379 with **Triple Crown Forks** making the Strongest Construction ever brought out in a Bicycle. Fork Sides are Reinforced with a Rib, this Rib is not Brazed or Soldered on, but is Part of the Fork Side and is Drawn Out so as to give Extra Strength to the Fork.



SEAT POST MAST AND STAYS

Note the Neatness of the Finished Flush Joint. All Our Joints are Made this way. We don't use any Old Style outside Joints. Flush Joints are Fitted Perfectly to Both the Head and Seat Post Mast. The Tubing is Filed Out to Fit Head and Seat Post Mast Connections. Inner Reinforcements Brazed to Tubing and Clinched.



HANGER BRACKET CLUSTER

We Use an Extra Large Hanger Bracket Barrel, which Permits the Use of Large Cups and Balls. This is Good Mechanical Practice as it Reduces Friction to a Minimum

SEAT POST CLUSTER

All Flush Joints, Taper Fitted and Well Brazed. Best Quality Material Used so as to Give a Rigid Frame Connection

Our Rear Forks are of Oval Tubing. Experience has taught us that this is the best shape to Use in Rear Forks. It is Extremely Strong and Rigid, and presents a Clean, Finished Appearance

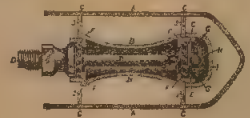
How to Determine Leg Measurement or How to Select a Bicycle with Correct Size Frame for Any Rider.

Distance from Top of Saddle to Pedal at Lowest Point

20 Inch Frame, Seat Lowered, 29½ inches; Seat Raised, 32½ inches

22 Inch Frame, Seat Lowered, 31½ inches; Seat Raised, 34 inches

24 Inch Frame, Seat Lowered, 33½ inches; Seat Raised, 36 inches



Sectional View of Rugby Pedal

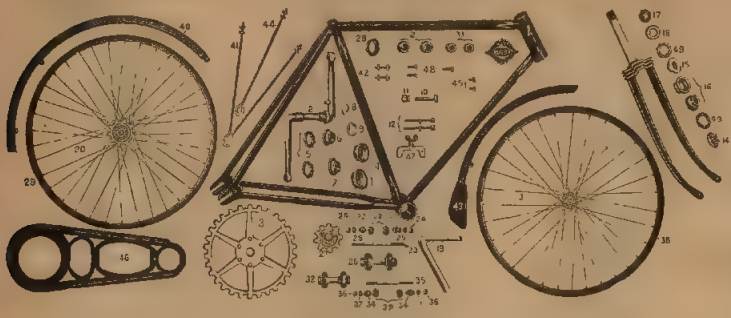
A—Outside Frame
B—Barrel.
C—Frame Brace
D—Pin or Axle.
E—Cone
F—Ball Retainer and Balls.
G—Lock Nut Washer
H – Lock Nut
I –Dust Cap
J—Ball Cups.

Don't overlook our No. 700SF Rugby Bicycle with Spring Front Fork. This Wheel is the "Last Word" in Bicycle Construction. Made to Ride Easy and Stand Hard Wear. See Our Spring Fork Featured Elsewhere

"DIAMOND EDGE IS A QUALITY PLEDGE"

EXTRA BICYCLE PARTS

NOTE—When ordering these Parts always specify number or name of Model in addition to number of Part wanted



*RUGBY PARTS

		MODEL 700	878	879	Boys Juvenile	Girls Juvenile
	FRAME AND HEAD GROUP					
No. R1	Frame Less all Parts, Weight 7 lbs Specify Color and Size Each	$15 40	$14 30	$17 00	$14 30	$14 85
No. R10	Frame Bolt for Binding Seat Post, Weight 1 ozs "	15	15	15	15	15
No. R11	Frame Bolt Nut Weight 1 oz. "	25	25	25	25	.25
No. R12	—Chain Adjusters, Weight 1 oz. "	15	15	15	15	.15
No. R13	Front Fork Weight 2 lbs Specify Color and Size Frame "	8 25	4 40	4 40	4 10	4 10
No. R14	Lower Head Cone (Stationary) Weight 1½ oz "	25	25	25	25	25
No. R15	—Upper Head Cone (Adjusting) Weight 1 oz "	.25	.25	25	.25	.25
No. R16L	—Lower Head Ball Cup, Weight 1 oz "	.35	35	35	.35	.35
No. R16U	—Upper Head Ball Cup, Weight 1 oz "	25	25	25	.25	.25
No. R17	Head Lock Nut Weight 1 oz "	25	25	25	25	25
No. R18	Head Lock Nut Washer, Weight ½ oz "	10	.10	.10	.10	10
No. R48	—Head Ball Retainers, Without Balls, Weight "	15	15	.15	.15	.15
No. R19	—Seat Post, Complete, Weight 11 ozs "	70	70	.70	.70	70
	CRANK HANGER GROUP					
No. R2	—Crank Weight 1¼ lbs. Each	2 20	2 20	2 20	2.20	2 20
No. R3	—Front Sprocket, Weight 14 ozs., Specify Number Teeth. "	2 20	2 20	2 20	1.65	1 65
No. R4	Hanger Ball Cups, Weight 1 oz "	35	35	35	35	35
No. R5	Hanger Ball Retainer, With out Balls, Weight 1 oz "	15	15	15	15	.15
No. R6	Hanger Stationary Cone, Weight 2 ozs "	35	35	35	35	35
No. R7	Hanger Adjusting Cone, Weight ½ oz "	35	35	35	35	35
No. R8	Hanger Lock Nut Weight 1 oz "	25	25	25	25	25
No R9	Hanger Lock Nut Washer, Weight ½ oz "	10	10	10	10	10
	REAR WHEEL GROUP					
No R30	Rear Wheel, Less Tires, Cemented Rim, Weight 3 lbs Each	4 00	4.00	4.00	3 65	3.65
No. R30½	Same as No. R30 with Coaster Brake, Weight 4½ lbs "	9 35	9.35	9 35	9 35	9 25
No. R30¾	Rear Wheel Less Tires, G. & J. Rim, Weight 3½ lbs "	4.40	4.40	4 40	4.40	4 40
No. R30¾	Same as No. R30 with Coaster Brake, Weight 4½ lbs "	9 60	9.60	9 60	9 60	9 60
	When Ordering Wheels Give Color and Size					
No. R22	Rear Wheel Cone, Weight per Pair 1½ ozs "	35	.35	35	.35	.35
No. R23	Rear Axle, Weight 7 ozs "	15	15	15	15	.15
No. R24	Rear Axle Nut, Weight per Pair 1 oz "	15	15	15	.15	15
No. R25	—Rear Axle Washer, Weight per Pair 1 oz "	10	10	.10	.10	.10
No. R26	—Rear Hub Shell Weight 6 oz "	2 35	1 10	1 10	80	80
No. R27	—Rear Sprocket, Weight 5 ozs Specify Number Teeth "	55	45	45	45	45
No. R28	—Rear Sprocket Lock Nut, Weight 1 oz "	10	10	10	10	10
No. R29	—Rear Wood Rim, for Cemented Tire, Weight 4 lbs "	1 25	1 25	1 25	1 22	1 25
No. R29½	—Rear Wood Rim, for G. & J. Tire Weight 4¼ lbs. "	1 50	1 50	1 50		
	When Ordering Rims Give Color, Size and Finish					
No. R30	—Rear Wheel Ball Retainer without Balls, Weight 1 oz "	15	.15	.15	.15	.15
	FRONT WHEEL GROUP					
No. R31	—Front Wheel, Less Tires Cemented Rim, Weight 2½ lbs Each	3 30	3 30	3 30	3 30	3 30
No. R31½	—Front Wheel Less Tires G. & J. Rim, Weight 2½ lbs "	3 65	3 65	3 65	3 45	3 45
	When Ordering Wheels Give Color and Size					
No. R32	—Front Hub Shell Weight 4 ozs "	1 10	1 10	1 10	55	55
No. R33	—Front Wheel Ball Cup Weight 1 oz "	15	15	15	.15	.15
No. R34	—Front Wheel Cones, Weight 1 oz "	25	25	25	25	25
No. R35	—Front Axle Weight 2 ozs "	15	15	15	15	15
No. R36	—Front Axle Nuts Weight ½ oz "	15	15	15	15	15
No. R37	Front Axle Washer, Weight ½ oz "	10	10	10	10	.10
No. R38	Front Wood Rim for Cemented Tire, Weight 4¼ lbs "	1 50	1 50	1.50	1 50	1 50
No. R38½	—Front Wood Rim for G. & J. Tires, Weight 4¼ lbs "	1 60	1 60	1 60	1 60	1.60
	When Ordering Rims Give Color and Size					
No R39	—Front Wheel Ball Retainers, without Balls, Weight 1 oz "	10	10	10	10	.10

EXTRA BICYCLE PARTS

NOTE—When ordering these Parts, always specify number or names of Models in addition to number of Parts wanted.

*RUGBY PARTS—CONTINUED

		MODEL 700	378	379	Boys Juvenile	Girls Juvenile
MUD AND CHAIN GUARD GROUP						
When Ordering Guards Give Color and Size Wheels						
No. R40—Rear Mud Guard, Weight 1½ lb.	Each	$1 35	$1 35	$1 35	$1 25	$1 35
No. R41—Rear Mud Guard Wire, with Nuts, Weight 4 ozs.	"	25	25	25	25	25
No. R42—Rear Mud Guard Bolts, Weight 1 oz.	"	10	10	10	10	10
No. R43—Front Mud Guard, Weight 4 ozs.	"	1 25	1 25	1 25	1 25	1 25
No. R44—Front Mud Guard Wire, with Nut, Weight 3 ozs.	"	20	20	20	20	20
No. R45—Front Mud Guard Bolts, Weight 1 oz.	"	10	10	10	10	10
No. R46—Chain Guard, Weight 12 ozs.	"			1 80		1 80
No. R47—Chain Guard Brace, Weight 4 ozs.	"			25		25
No. R48—Chain Guard Bolts, Weight 1 oz.	"			10		10

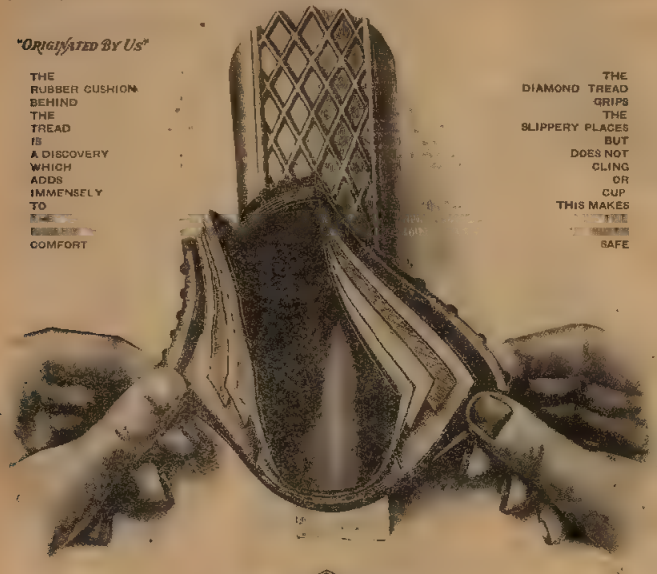
*SHAPLEIGH SPECIAL, WONDER AND CYCO PARTS

		MODEL Shapleigh Special 366	368	369	Wonder 1918	Cyco
FRAME AND HEAD GROUP						
No. 1—Frame, Less all Parts, Weight 7 lbs., Specify Color and Size	Each	$17 00	$13 75	$15	$13 75	$13 75
No. 10—Frame Bolt, for Binding Seat Post, Weight 4 ozs.	"	15	15	15	15	15
No. 11—Frame Bolt Nut, Weight 1 oz.	"	25	25	25	25	25
No. 12—Chain Adjusters, Weight 1 oz.	"	15	15	15	15	15
No. 13—Front Fork, Weight 2 lbs., Specify Color and Size Frame	"	4 50	4 50	4 00	4 00	4 00
No. 14—Lower Head Cone (Stationary) Weight ½ oz.	"	35	35	.25	25	.25
No. 15—Upper Head Cone (Adjusting) Weight 1 oz.	"	25	.25	.25	25	.25
No. 16L—Lower Head Ball Cup, Weight 1 oz.	"	25	.25	.25	25	25
No. 16U—Upper Head Ball Cup, Weight 1 oz.	"	25	.25	.25	25	25
No. 17—Head Lock Nut, Weight 1 oz.	"	25	.25	.25	25	.25
No. 18—Head Lock Nut Washer, Weight ½ oz.	"	10	10	.10	10	.10
No. 19—Head Ball Retainer, Without Balls, Weight 1 oz.	"	15	15	.15	15	.15
No. 19—Seat Post, Complete, Weight 11 ozs.	"	70	70	70	70	.70
CRANK HANGER GROUP						
No. 2—Crank, Weight 1½ lbs.	Each	2 20	2 20	2 20	2 20	2 20
No. 3—Front Sprocket, Weight 14 ozs., Specify Number Teeth	"	1 85	1 85	1 85	1 85	1 85
No. 4—Hanger Ball Cups, Weight 1 oz.	"	35	35	35	35	35
No. 5—Hanger Ball Retainer, Without Balls, Weight 1 oz.	"	15	15	15	15	15
No. 6—Hanger Stationary Cone, Weight 2 ozs.	"	35	35	35	35	.35
No. 7—Hanger Adjusting Cone, Weight ½ oz.	"	35	35	35	35	.35
No. 8—Hanger Lock Nut, Weight 1 oz.	"	25	25	.25	25	.25
No. 9—Hanger Lock Nut Washer, Weight 1 oz.	"	10	10	.10	10	10
REAR WHEEL GROUP						
No. 20—Rear Wheel, Less Tires, Cemented Rim, Weight 3 lbs.	Each	3 30	3 30	3 30	3 30	3 30
No. 20½—Same as No. R20 with Coaster Brake, Weight 4¼ lbs.	"	9 35	9 35	9 35	9 35	9 35
No. 20½—Rear Wheel, Less Tires, G. & J. Rim, Weight 3¼ lbs.	"	3 65	3 65	3 65	3 65	3 65
No. 20½—Same as No. R20½, with Coaster Brake, Weight 4¾ lbs.	"	9 60	9 60	9 60	9 60	9 60
When Ordering Wheels Give Color and Size						
No. 21—Rear Wheel Ball Cup, Weight per Pair 2 ozs.	"	25	25	25	25	25
No. 22—Rear Wheel Cone, Weight per Pair 1½ ozs.	"	25	25	25	25	25
No. 23—Rear Axle, Weight 9 ozs.	"	15	15	15	15	.15
No. 24—Rear Axle Nut, Weight per Pair 1 oz.	"	15	15	15	15	15
No. 25—Rear Axle Washer, Weight per Pair 1 oz.	"	10	10	10	10	10
No. 26—Rear Hub Shell, Weight 1 lb.	"	1 10	1 10	1 10	90	.90
No. 27—Rear Sprocket, Weight 5 ozs., Specify Number Teeth	"	45	45	45	45	45
No. 28—Rear Sprocket Lock Nut, Weight 1 oz.	"	25	25	25	25	25
No. 29—Rear Wood Rim for Cemented Tire, Weight 1¾ lbs.	"	1 50	1 50	1 50	1 50	1 50
No. 29½—Rear Wood Rim for G. & J. Tire, Weight 1¾ lbs.	"	1 60	1 60	1 60	1 60	1 60
When Ordering Rims Give Color, Size and Finish						
No. 30—Rear Wheel Ball Retainer without Balls, Weight 1 oz.	"	15	.15	15	15	15
FRONT WHEEL GROUP						
No. 31—Front Wheel, Less Tire, Cemented Rim, Weight 2½ lbs.	Each	3 30	3 30	3 30	3 30	3 30
No. 31½—Front Wheel, Less Tires, G. & J. Rim, Weight 2½ lbs.	"	3 45	3 45	3 45	3 45	3 45
When Ordering Wheels Give Color and Size						
No. 32—Front Hub Shell, Weight 4 ozs.	"	1 65	1 65	1 10	1 10	1 10
No. 33—Front Wheel Ball Cup, Weight 1 oz.	"	15	.15	15	.15	15
No. 34—Front Wheel Cones, Weight 1 oz.	"	25	25	25	.25	25
No. 35—Front Axle, Weight 2 ozs.	"	15	15	15	15	15
No. 36—Front Axle Nuts, Weight ½ oz.	"	15	15	.15	15	15
No. 37—Front Axle Washer, Weight ½ oz.	"	10	10	10	10	10
No. 38—Front Wood Rim for Cemented Tire, Weight 1¾ lbs.	"	1 25	1 25	1 25	1 25	1 25
No. 38½—Front Wood Rim for G. & J. Tires, Weight 1¾ lbs.	"	1 60	1 60	1 60	1 60	1 60
When Ordering Rims Give Color and Size						
No. 39—Front Wheel Ball Retainers without Balls, Weight 1 oz.	"	10	10	10	10	.10
MUD AND CHAIN GUARD GROUPS						
When Ordering Guards Give Color and Size of Wheels						
No. 40—Rear Mud Guard, Weight 1½ lb.	Each	1 50	1 50	1 50	1 50	1 50
No. 41—Rear Mud Guard Wire, with Nuts, Weight 4 ozs.	"	25	25	25	25	.25
No. 42—Rear Mud Guard Bolts, Weight 1 oz.	"	10	10	10	10	.10
No. 43—Front Mud Guard, Weight 4 ozs.	"	1 25	1 25	1 25	1 25	1 25
No. 44—Front Mud Guard Wire, with Nut, Weight 3 ozs.	"	20	20	20	20	20
No. 45—Front Mud Guard Bolts, Weight 1 oz.	"	10	10	10	10	10
No. 46—Chain Guard, Weight 12 ozs.	"			1 65		1 65
No. 47—Chain Guard Brace, Weight 4 ozs.	"			20		20
No. 48—Chain Guard Bolts, Weight 1 oz.	"			15		.15

BICYCLE TIRES

SINGLE TUBE

The Dissection of a Rugby Diamond Tread Tire Reveals the One Secret of its Superiority—GOODNESS.
Cups not Deep enough to gather Dirt, Mud or Substances on the Street, but are Constructed Properly to make it a perfect Non-Skid Tire.


"ORIGINATED BY US"
THE RUBBER CUSHION BEHIND THE TREAD IS A DISCOVERY WHICH ADDS IMMENSELY TO COMFORT
THE DIAMOND TREAD GRIPS THE SLIPPERY PLACES BUT DOES NOT CLING OR CUP THIS MAKES SAFE

RUGBY

DIAMOND TREAD TIRES

Provided with Cotton Flannel Rim Strip which is Moulded into the Rubber, this Strip will positively prevent Tires from creeping and protect the rider against Accidents caused by Tires pulling off in Ruts, etc. This Strip prevents Rim Cuts and Wear.

* RUGBY DIAMOND TREAD

Cover—Made of Pure Upper River Para Gum; ⅛ in. Thick on the Tread. Patent Non-skidding Diamond Cup Tread of our own design; Tread Rubber is a Solid Cushion

Tube—Best Quality Para Rubber; 10/6 in. Thick on Walls; Extra Heavy Reinforcing Strip on Rim side

Fabric—Compound Five Ply consisting of best Sea Island Fabric and Friction Cloth; impossible to pull apart

Friction—The very best obtainable Friction is used, so strong that it is impossible to separate the different Layers of Fabric

Valve—Valve construction is the best and most reliable, having seat of Metal and Body of Pure Para Gum.

Cement Strip—Made of heavy Egyptian Cotton Flannel, carefully Vulcanized in the Base of the Tire. Tires are same construction that has been used on Bulky Tires for years.

Quality—The very Highest Grade possible to manufacture, Extra Hard to Puncture, also Easy to Repair

Guarantee—Full Season. (See Page 3102.

	Per Pair
No. 55½—28x1½ inches; Weight per Pair 5½ lbs. . .	$11.00
No. 55⅝—28x1⅝ inches; Weight per Pair 6 lbs. . .	$11.[illegible]

Twenty-five Pairs in a Crate
Prices do not include Pumps or Kits

"DIAMOND EDGE IS A QUALITY PLEDGE"

HIGHEST GRADE CALABASH AND MEERSHAUM PIPES

PRICE RACK

Illustrations Exact Size.

No. 4751, Price, $12.00
Genuine South African Calabash with Plain Sterling Silver Band. Removable Meerschaum Bowl, with choice Clouded Amber Mouthpiece. Large Capacity Bowl, in Walrus Chamois Lined Case
Best Pipe on the Market

No. 4752, Price, $6.00
Genuine South African Calabash with French Briar Removable Bowl and Band. If Bowl cracks or burns out it will be replaced free of charge. Best Quality Rubber Stem.
Does not come in a Case.

No. 4753, Price, $3.00
Genuine South African Calabash. Sterling Silver Band. Best Quality Hard Rubber Mouthpiece. Meerschaum Lined.
Does not come in Case.

No. 4756, Price, $20.00
Best Quality Genuine Meerschaum. The Popular Calabash Shape. Roman Finish. Medallion Gold Filled Band. In Neat Leather Silk Lined Case

No. 4754, Price, $6.00
Genuine South African Calabash, with Plain Sterling Silver Band. Removable Meerschaum Bowl. Best Quality Hard Rubber Mouthpiece. Does not come in Case.

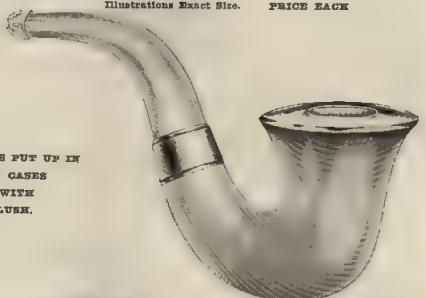
No. 4755, Price, $15.00
Best Quality Genuine Meerschaum. Roman Gold Filled Medallion Mountings. Raised Figures. Genuine Amber Mouthpiece. In neat Leather Silk Lined Case. This is a Beauty

GENUINE MEERSCHAUM PIPES AND CIGAR HOLDERS WITH REAL AMBER MOUTHPIECE

Illustrations Exact Size. PRICE EACH

ALL PIPES ARE PUT UP IN LEATHER CASES LINED WITH SILK PLUSH.

No. 4757, Plain Gold Filled Band, $10.00



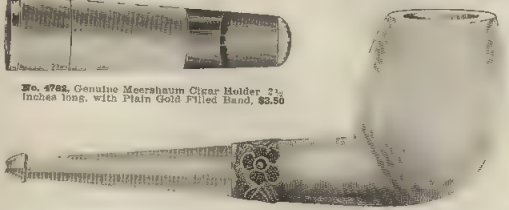
No. 4758, Bent Calabash Plain Gold Filled Band, $9.00

No. 4759, Plain Gold Filled Band and Top Band, $9.00

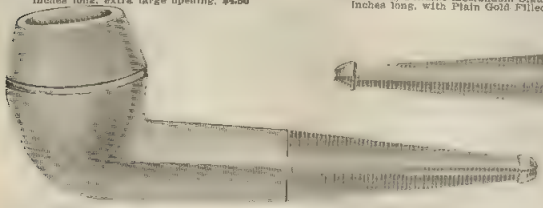
No. 4760, Fancy Chased Gold Filled Band, $8.50

No. 4761, Clouded Amber Cigar Holder, 2½ inches long, extra large opening, $4.50

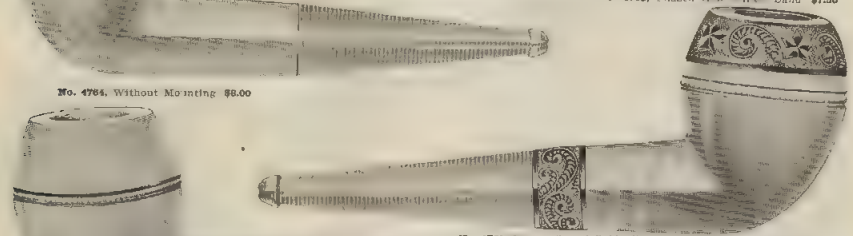
No. 4762, Genuine Meerschaum Cigar Holder, 2½ inches long, with Plain Gold Filled Band, $3.50



No. 4763, Chased Gold Filled Band, $7.50



No. 4764, Without Mounting, $6.00



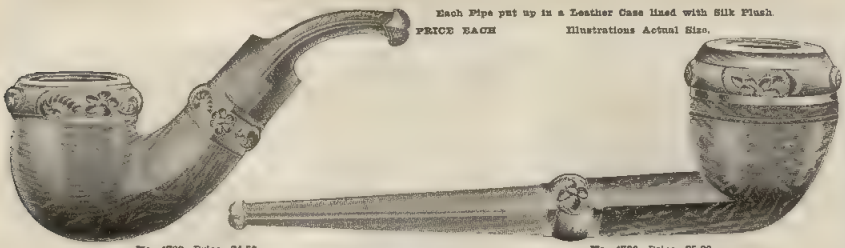
No. 4765, Fancy Chased Gold Filled Band and Top Band, $10.00

No. 4766, Fancy Gold Filled Band, Rose Finish, $15.00

4767, Genuine Meerschaum Cigar Holder, 2½ inches long, $2.50

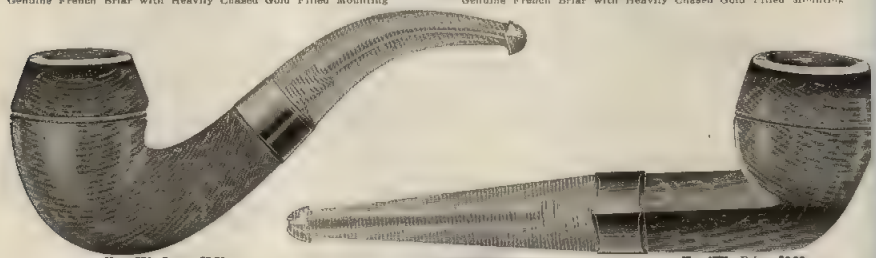
GENUINE FRENCH BRIAR PIPES WITH REAL AMBER MOUTHPIECES

Each Pipe put up in a Leather Case lined with Silk Plush.
PRICE EACH Illustrations Actual Size.



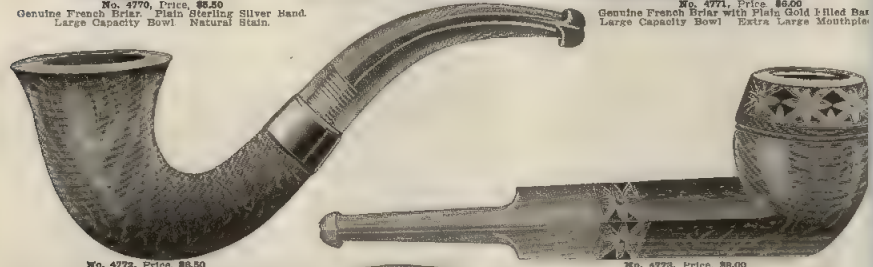
No. 4768, Price, $4.50
Genuine French Briar with Heavily Chased Gold Filled Mounting

No. 4769, Price, $5.00
Genuine French Briar with Heavily Chased Gold Filled Mounting



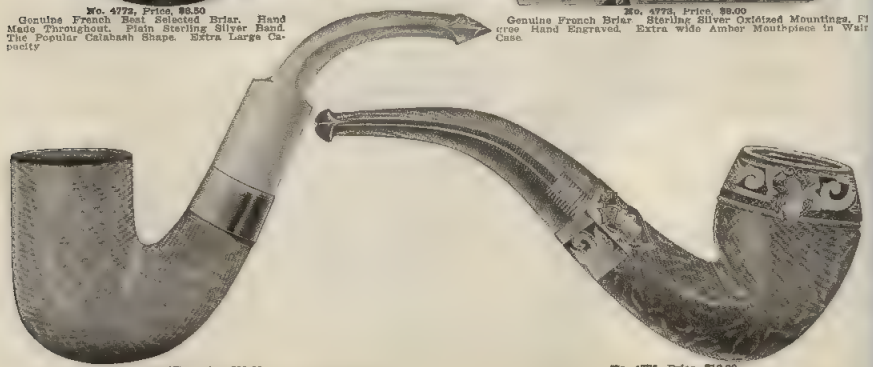
No. 4770, Price, $5.50
Genuine French Briar. Plain Sterling Silver Band. Large Capacity Bowl Natural Stain.

No. 4771, Price, $6.00
Genuine French Briar with Plain Gold Filled Ban Large Capacity Bowl Extra Large Mouthpie



No. 4772, Price, $6.50
Genuine French Best Selected Briar. Hand Made Throughout. Plain Sterling Silver Band. The Popular Calabash Shape. Extra Large Capacity

No. 4773, Price, $8.00
Genuine French Briar Sterling Silver Oxidized Mountings, Fl ores Hand Engraved. Extra wide Amber Mouthpiece in Walr Case.



No. 4774, Price, $11.00
The very best selected French Briar, Hand Made throughout. Plain Sterling Silver Band. Choice Clouded Amber Mouthpiece with Gloker. Large Capacity Bowl, fitted with Moisture Well. Case lined with Chamois. There is no finer or better pipe made.

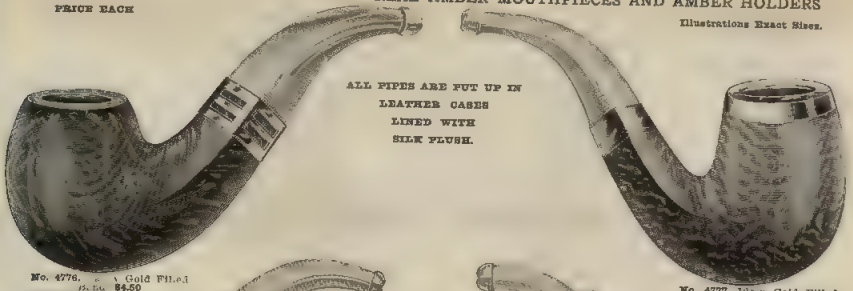
No. 4775, Price, $10.00
Genuine French Briar. Sterling Silver Mountings, Oxidized with Raised Ornaments, beautifully Engraved. In Walrus Case.

GENUINE FRENCH BRIAR PIPES WITH REAL AMBER MOUTHPIECES AND AMBER HOLDERS

PRICE EACH

Illustrations Exact Sizes.

ALL PIPES ARE PUT UP IN LEATHER CASES LINED WITH SILK PLUSH.

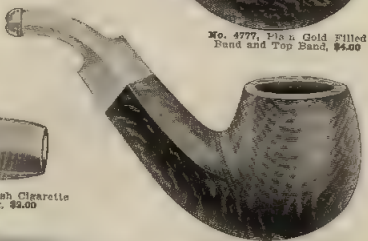


No. 4776, [illegible] Gold Filled Band, $4.50

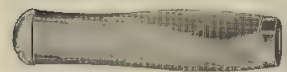
No. 4777, Plain Gold Filled Band and Top Band, $4.00

No. 4778, Chased Gold Filled Band $2.50

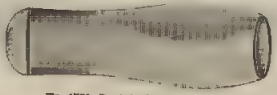
No. 4779, Real Amber Turkish Cigarette Holder, 1¾ inches long, $2.00



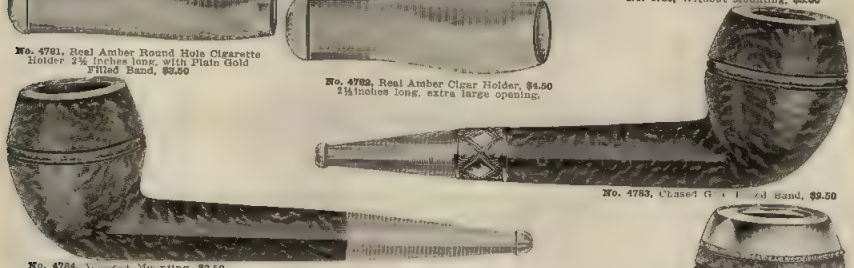
No. 4780, Without Mounting, $3.00



No. 4781, Real Amber Round Hole Cigarette Holder 2½ inches long, with Plain Gold Filled Band, $2.50

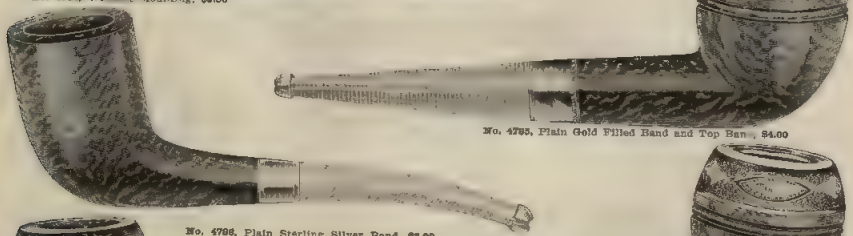


No. 4782, Real Amber Cigar Holder, $4.50 2½ inches long, extra large opening.

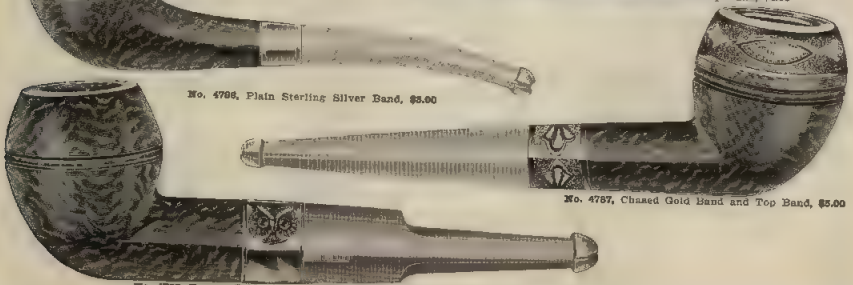


No. 4783, Chased G[illegible]d Band, $9.50

No. 4784, W[illegible]t Mounting, $3.50



No. 4785, Plain Gold Filled Band and Top Band, $4.00



No. 4786, Plain Sterling Silver Band, $3.00

No. 4787, Chased Gold Band and Top Band, $5.00

No. 4788, Roman Gold Filled Band with Raised Owl's Head, $3.50

MOTORCYCLE LAMPS

OLD SOL—WITHOUT GENERATORS

The Sloping Rounded Hood and Well Proportioned Body Give a Very Pleasing and Symmetrical Appearance. **Finely Nickel Plated** on Heavy Gauge Brass; Inside Lacquered Optical Blank; Focus can be Adjusted, a Slot in Bottom of Lamp Permits the Moving of Burner, so by Varying the Distance from Reflector either a Strong Concentrated Light or a Diffused one may be obtained.

WITH SIDE SOCKET

Each

No. 1 Without Brackets; Diameter of Door 6 inches, Diameter of Body 4¾ inches; Diameter of Mirror Lens 4 inches; Depth of Body 4 inches Weight each 2 lbs. **$8 60**

One in a Carton

WITH REAR SOCKET

Each

†No. 2.—Without Brackets; Diameter of Door 8 inches; Diameter of Body 4¾ inches; Diameter of Mirror Lens 4 inches; Depth of Body 4 inches; Weight each 2 lbs.; Rear Socket Fits any Standard Bracket **$8 60**

These Models are Designed for More Efficient Lighting Service During Long Rides, Touring and Night Endurance Runs. The Most Intense and Greatest Candle Power Lamps Made for Motorcycles. Equipped with Ball Pin Hinges. Special German Lava Burners, Automobile Type, Heavy Double Thick Door Glasses and Specially Ground Mangin Mirror Lenses; Bodies are Made of Heavy Gauge Brass Drawn from One Piece of Metal and Door Frames of Special Beaded Construction to Give Them Strength.

WITH SIDE SOCKET

Each

No. 17—Without Brackets, 1,000 Candle Power; Diameter of Door 7 inches, Diameter of Lens 5 inches; Depth of Body 6 inches; Weight each 3 lbs. **$8 50**

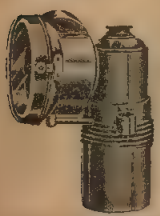
No. B17 Extra Bezels or Front Door Glasses for No. 17 Lamp **80**

Each

No. 8 Without Brackets; 1,500 Candle Power; Diameter of Door 8 inches; Diameter of Mirror Lens 6 inches; Depth of Body about 6¾ inches; Weight each 4 lbs. . **$10 50**

WITH ATTACHED GENERATORS

Made of Heavy Nickel Plated Brass. These Self Contained Lamps are built for Motorcycle use and are larger, better and stronger than any Bicycle Lamp. Will burn about 7 Hours on One Charge of Carbide and furnish a Light of about 100 Candle Power.



FOR SIDE GENERATORS

Each

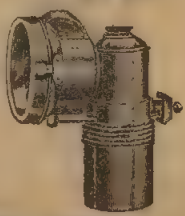
No. 3 Without Brackets; Height Over All 7 inches, Diameter of Door 4 inches; Diameter of Reflector 3 inches; Carbide Capacity 6 ozs.; Distance from Center of Bracket Clamps to Front of Lamp 8½ inches; Weight each, Complete 2 lbs. **$8 20**

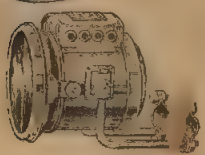
FOR REAR BRACKETS

Each

†No. 4—Without Brackets; Height Over All 7 inches, Diameter of Door 4 inches, Diameter of Reflector 3 inches; Carbide Capacity 6 ozs. Weight each 2 lbs. **$6 20**

One in a Carton





Cut Shows Lamp With Set of No. 14¾ Brackets Attached

20TH CENTURY

Constructed of Heavy Gauge Brass, Riveted Throughout, Equipped with Mirror Lens Reflector, Ground to Naval Standard, Plate Glass Front; Lamp as Shown above will Burn Every Motorcycle are fitted in this Manner Receives Minimum Vibration, Bracket Clamps Swivel to Four Positions so Lamps may be Carried on Handle Bars or Extension Forks; If Handle Bars are V Type Brackets may be Attached and Lamp Bent to Position.

Nickel Plated; Diameter of Body 4 inches; Diameter of Door 5 Inches; Depth of Lamp 5½ inches; Capacity of Tip ¾ feet.

Each

No. 102—Lamp Only; Weight 2¼ lbs. **$7 25**

No. 1002—Lamp with No. 10 Generator, No. 14¾ and No. B10 Brackets and Hose Complete; Weight 6¾ lbs. **15 40**

Lamps Only in a Box. Lamp Brackets, Loose Generator and Brackets Complete in a Box

MIDGET TAIL LAMP

Made of One-Piece Aluminum; Strongly Constructed; No Parts to Become Loose, Alco Burner, White Light Illuminates State License and the Red Light Danger Signal, Brass Pet Cock Regulates Gas Flow.

Each

Midget—Has Two 1¾-inch Glass Lenses; One White and One Red; Height 2¼ inches; Weight 0 ozs. **$3 20**

One in a Box

Items Marked † Not Carried in Stock, Can Only Be Furnished by Shipping Direct From Factory, Bridgeport, Conn.

MOTORCYCLE LAMPS

SOLAR HEADLIGHT

SOLAR GRANDAD

The Largest and Positively the Most Powerful Motorcycle Headlight on the Market. Made of Heavy Drawn Brass. Front Door for 9½ Inches Wide, 9½ Inches in Depth. Fitted with Five-Inch Solar Special Short Focus Lens Glass Lens Mirror Reflector with Prong Adjusting Reflector Produces the Two Necessary Bunches of Light. Has Adjustable Focus. The Removable Door Glass Lens Mirror and Front Reflector and Prong for Vertical Fork Brackets 7 Inches between Centers. To be Supplied with Gas from Tank

Each

✣ No. 123S—Nickel Plated, Weight 4¾ lbs. $10 50

SOLAR DAD

This Model is a New Design for 1913, is as Large in Size as Necessary and Completely Fulfills all Demands Made for a Motorcycle Headlight. The Body and Plate are Made of Drop Pure Heavy Gauge Metal the Front Glass and Mounting Rests on Brass Bead by a Strong Wire Spring Formed as a Door to Hinge and Catch and Receptacle of their Backing. Fitted with 5-inch Solar Short Focus Lens Mirror and Prism Reflector which Produce the Two Necessary Fields of Light. Has Hinged Back Door on each side the Right side having Hinge and Catch for Lighting Match. Top and Prong for Horizontal Fork Brackets 4 Inches Between Centers

Each

✣ No. 196—Nickel Plated, Weight 3½ lbs. [illegible]

One in a Box

SOLAR SONNY

Same Design as Model 105 but is just Small Inches in Front Diameter and 6½ Inches in Depth. Made of Heavy Gauge Metal the Body and Rear Fitting of One Piece and Front with Right Lens Red Jewel to Hinged Door Glass Lens and for Front Door 5-inch Has Inch Bridge in the Mirror Reflector and Brass Mounting Reflector which Provides the Two Necessary Fields of Light. Model 191 for Flat Dashes with Fit in a Space as Compared Inside the Back of Body. No. 194F which Prongs on Either Side at Bottom of Body for Horizontal Fork Brackets 2¾-inch Centers.

Each

No. 194—Nickel Plated, for Flat Brackets $6.00

✣ No. 194F—Nickel Plated for Fork Brackets 6.00

One in a Box Weight 3 lbs.

TAIL LIGHTS

SOLAR

SOLAR GENERATOR

The combined Generator and Headlight for Motorcycles is a "Big Brother" of the Famous Solar Cycle Lamp. Made Entirely of Heavy Brass. Full Nickel Plated is 9½ Inches High with Removable Silver Plated Metal Reflector, 3½-Inch Double Convex Front Lens and 1½-Inch Ruby Jewels Set at an Angle, thus Combining Head and Tail Lights Featured in a Single Lamp. Has Two Props for Special Fork Brackets, 2¾ Inches Between Centers. The Famous Solar Gas Generator with an Added New Needle Valve gives a Perfect Control of Water Feed. Carbide Capacity 8 Ounces and Burns 8 Hours, with ⅜-foot Tip.

Each

✣ No. 4GH—Nickel Plated Complete with Bracket. Weight 5 lbs. $11 30

✣ No. 5GHW—Nickel Plated, Complete with Brackets and Valve to Supply Gas Tail Lamp. Weight 5 lbs. 12 00

One in a Box

GAS

Length 3 Inches, Height 3 Inches with 2½-inch Rear Ruby Semaphore, Complete with Adjustable Bracket to Fasten on Rear Wheel Mud Guard Has ⅜-foot Single Jet Tip.

Each

✣ No. 182G—Nickel Plated Complete with Bracket. Weight 1 lb. $5 20

One in a Box

ELECTRIC

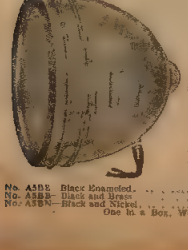
Length 3 Inches; Height 3 Inches, with 2 ½-inch Rear Ruby Semaphore Complete with 1 C. P. 2 Volt Tungsten Bulb, with Adjustable Bracket to Fasten on Rear Wheel Mud Guard.

Each

✣ No. 102E—Nickel Plated, Complete with Bracket. Weight about 1 lb. $3.00

One in a Box

VESTA ELECTRIC



HEADLIGHT

Made of Heavy Brass, Acorn Type Design Equipped with a Silver Plated Parabolic Reflector and a Patented Focusing Device, which enables the Operator to obtain either a Spreading or Concentrated Spot Light as desired. Comes Complete with 6 C. P. Tungsten 2 Volt Bulb. Ready to be attached to Wire (Wire and Battery not included). Distance between Center Props 8 Inches

Each

No. A5BE Black Enameled [illegible] $25.50 $ 30

No. A5BB—Black and Brass [illegible] 13.50 15.50

No. A5BN—Black and Nickel [illegible] 15.50 17.50

One in a Box, Weight 3½ lbs.

TAIL LIGHT

This Tail Light is Made of Heavy Brass, is Light in Construction and Consumes only Little Current Can Easily and Quickly be attached to any Mud Guard Comes Complete with 2 C. P. 2 Volt Bulb Ready to Attach to Wire (Wire and Battery not Included) —Outside Diameter of Lamp 3 Inches. Has Red Lens

Each

No. 302 Weight about 1½ lbs. $4 00 3 00

One in a Box

MOTORCYCLE LAMP BRACKETS

OLD SOL

CUTS SHOW BRACKET NO. A IN FRONT AND BACK OF HEAD

Two required for attaching Old Sol Lamps Nos. 1, 3 and 5, to Handle Bars of the following makes of Motorcycles:

IN FRONT OF HEAD

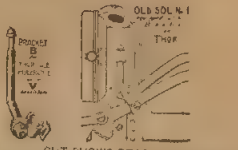
American, Bradbury, Brockway, C. C. M., Curtiss, Greyhound, Haverford, Indian, Marvel, M. M., Neoma, Reading-Standard, Schebler, Thomas, Triumph, Wagner.

BACK OF HEAD

American, Ariel, Bradbury, Brockway, C. C. M., Curtiss, Detroit, Douglas, Indian, Excelsior, Henderson, Ivy, Harley Davidson, Haverford, Iver Johnson, Merkel, Motosacoche, Neoma, Reading-Standard, Rex, Royal Enfield, Schebler, Sears, Thor, Thomas, Triumph, Tribsa, Trump, Wagner.

No. A. Nickel Plated. Weight per Pair 17 ozs. Per Pair $1 65

One Pair in a Package



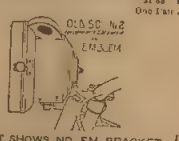
CUT SHOWS BRACKET NO. B ATTACHED TO LAMP AND HANDLE BARS

Two required for attaching Old Sol Lamps Nos. 1, 3 and 5 to Handle Bars of the following makes of Motorcycles:

American, Armac, Bradbury, Brockway, C. M. Curtiss, Detroit, Douglas, Indian, Flanders, Greyhound, Haverford, Indian, Ivy, Merkel, Monarch, Neoma, New Era, Perry, Reading-Standard, Rex, Schebler, Sears, Thomas, Thor, Triumph, Wagner and Yale.

No. B. Nickel Plated. Weight per Pair 20 ozs. Per Pair $1 65

One Pair in a Package



CUT SHOWS NO. EM BRACKET ATTACHED TO HANDLE BARS OF EMBLEM MOTOR CYCLE

✣No. EM. Nickel Plated. Complete Center of Handle Bars of Emblems and Pair of Mirrors. Specify whether No. 2 or No. 4 Socket is desired. We can also furnish Each $1 45

One in a Package

CUT SHOWS NO. HD BRACKET ATTACHED TO HANDLE BARS OF HARLEY DAVIDSON MOTOR CYCLE

✣No. HD—Nickel Plated. Complete Center of Handle Bars for Harley Davidson Motor Cycles. Specify whether No. 2 or No. 4 Socket is desired. We can furnish Weight 14 ozs. Each $1 65

One in a Package

Plain Molded rear light. Mounted on Rear of 3/4" Round Upright Tube and Post. Complete with Angle Head Screw Bolt and Nut. For Use on Any Stock Rear Lamp Bracket. Nickel Plated. Weight Each 6 ozs. Each $1 10

Loose

20TH CENTURY

For 20th Century Lamps Only. Set of Two Each. For Pair in Use. Attach to Handle Bars on Radius of Circle Best Suited for Rear Light Position.

No. 14W3. Nickel Plated Steel. Extends 5 Inches Horizontally, Inches Weight per Set 4 ozs. Per Set $2 20

Loose

SOLAR

Always Order Brackets by Number

✣BRACKETS FOR NOS. 4GH, 194 AND 194P MOTORCYCLE LAMPS

No.	Make	Clip	Stem	Designed to Fasten on	Each
✣41	[illegible]	1" D. F.	Indian	[illegible]	$2 20
✣42	[illegible]	Clamping	Indian	[illegible]	2 20
✣43	[illegible]	Adjustable	[illegible]	[illegible]	2 20
✣44	[illegible]	Clamping	Single Motor	Down Tube	2 70
✣45	[illegible]	1" D. F.	Solo	Fork Yoke	2 20
✣4	[illegible]	1" D. F.	Yale	Handle Bar Stem	2 20
✣	[illegible]	1" D. F.	Sterling	Handle Bar	2 80
✣	[illegible]	1" D. F.	Flanders	Handle Bar	2 80
✣	[illegible]	1" D. F.	Flanders	Seat Post Clamp	2 80
✣	[illegible]	1" D. F.	Standard	Seat Post Clamp	2 80
✣	[illegible]	1" D. F.	Harley	Handle Bar	2 80
✣	[illegible]	Clamping	[illegible]	Fork Tube	2 90
✣	[illegible]	1" D. F.	Thor Model VII	Handle Bar	2 90
✣	[illegible]	1" D. F.	Thor Model VII	Front Fork Lamp Bracket	2 90
✣	[illegible]	1" D. F.	Sanford	Handle Bar	2 80
✣	[illegible]	1" D. F.	Stevens-Duryea R. & L.	Down Tube	2 90
✣	[illegible]	1" D. F.	Iver Johnson R. & L.	Down Tube	2 90
		1" D. F.	Neal Rex	Motor Fork Lamp Bracket	2 90

✣BRACKETS FOR NO. 195 MOTORCYCLE LAMPS

No.	Make	Clip	Stem	Designed to Fasten On	Each
✣51	[illegible]	1" D. F.	Indian Large Cross Bar	Indian 8-10 and 11-12 H.	$2 70
✣51	Iver Johnson	1" D. F.	Iver Johnson	Iver Johnson Handle Bar	2 70
✣54	[illegible]	Set Clamp	Indian Longer Cross Bar	Indian Handle Bar	2 70
✣	[illegible]	[illegible]	Merkel Longer Cross Bar	Merkel Handle Bar	2 70
✣	Flanders	Same	8-10 and 11-12 H.	Indian	2 70
✣	Thor	Same	8-10 and 11-12 H.	4-cyl.	2 90
✣	Schebler	Same	8-10 and 11-12 H.	4-cyl.	2 90
✣	Pierce	Same	8-10 and 11-12 H.	4-cyl.	2 90
✣	Enfield	Same	8-10 and 11-12 H.	4-cyl.	2 90
✣	Thor V and VII	Same	8-10 and 11-12 H.	4-cyl.	2 90
		1" D. F.	Indian	Handle Bar	2 90
				Handle Bar	2 70

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct From Factory, Bridgeport, Conn.

MOTORCYCLE LAMP BRACKETS

✣SPECIAL BRACKETS

EXCELSIOR LAMP

Each

✣No. EEB Lamp Bracket for Excelsior Motorcycle ... $1.20

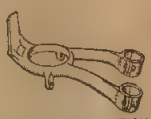
Loose

EXCELSIOR GENERATOR

Each

✣No. EGB Generator Bracket for Excelsior Motorcycle ... $1 60

Loose



MERKEL COMBINATION

Each

✣No. MGB Combination Lamp and Generator Bracket for Merkel Motorcycle ... $2 20

HARLEY DAVIDSON LAMP

Each

✣No. HDLB—Lamp Bracket for Harley Davidson Motorcycle ... $1 20

Loose

THEIM LAMP

Each

✣No. TLB—Lamp Bracket for Theim Motorcycle ... $1 20

Loose

Brackets to Fit Other Makes of Motorcycles are Being Made as Fast as Possible and will be Supplied at Above Prices

✣MOTORCYCLE LAMP COWLS

Can be Securely Fastened to Lamp and are Used to Conceal with all of the Light in the Road Ahead and to Protect the Rider's Eyes from the Glare

Each

✣No. 21—For No. 3 and 4 Lamps ... $0 50

✣No. 121—For No. 0 and 01 Lamps ... 1 20

✣No. 221—For No. 195 Lamp ... 1 00

Loose

GENERATORS

MOTORCYCLE

SOLAR

Nickel Plated, Seamless Copper and Lower Sections Patent Adjustable Cam Lock Fastens Upper and Lower Tanks Securely Together Rubber Gasket or Washer at Joint Formed by the Fastening Device

Each

No. 91—Single Generator, 8½ Inches High, 3½ Inches Diameter of Globe Carbide Capacity 10 ozs. Specially Designed and Constructed for Motorcycle Use. Has Solar Gas Generating Principle with Adjustable Needle Valve Giving a Perfect Flame of Water Feed Screw is Placed Over Convenient Lead Cap-hole and Is Easily Cleaned. Supplied with Universal Adjustable Bracket to Fit all Motorcycles. Weight 2 lbs. 12 oz. ... $6 80

Loose

20TH CENTURY

Each

No. 19—Single Generator, 8½ Inches High, 3 Inches Diameter Carbide Capacity 10 ozs. Designed Especially for Use on Motorcycle. Cast Iron Frame and Brass Shell. All Metal Parts are Nickel Plated Copper Base Is Fully Soldered Between Need Parts. Water Feed Screw Is Placed Over Convenient Hole for Filling Water. Complete with No. 1919 Adjustable Bracket to Fit all Motorcycles. Weight, 2 lbs. ... $5 40

One in a Box

OLD SOL

NICKEL PLATED, HEAVY BRASS

The Carbide Basket is Made of Perforated Sheet Brass in place of the Ordinary Screen Basket and Gives Very Much Better Results. The Construction Throughout is Very Strong. All Threaded Ends where Upper and Lower Sections of Generator Connect are Metal to Metal Heavy Fittings. These Heavy Fittings are Features Made the Generator a Well Designed Scientific Creation of Hard Use over Rough Roads and Heavy Grades. Will Burn Eight Hours on One Charge

New Type Double Clamp Coupling Bottom Portion to Top

No. 5—Without Brackets Height Over All 8.35 Inches Extreme Diameter 5¼ Inches Carbide Capacity 12 ozs. Weight, 1 lb. ... Each $3 85

One in a Box

MOTORCYCLE GENERATOR BRACKETS

OLD SOL

For Attaching No. 5 Generator to Frame of Any Motorcycle Having Standard Size Tubing ... Each $1 50

No. E Nickel Plated, Weight per Dozen 15 ozs.

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Bridgeport, Conn.

"DIAMOND EDGE IS A QUALITY PLEDGE"

ADJUSTABLE PLANES.

STANLEY'S

SKEW CUTTER, FILLETSTER AND RABBET

CAST IRON FRAMES AND CAPS; Tempered and Polished Tool Steel Cutters.

No. 289—Japanned; Length 9¼ in.; Size of Cutter 2 in Adjustable to Cut any size up to 2 in.; Weight each about 4 lbs. ..... Each, $2.70

No 289 is equipped with a fence which can be attached to either side of the plane so that it can be used either Right or Left Hand

DOVE-TAIL—TONGUE AND GROOV

Nickel Plated Cast Iron Frame and Handle; Tempered and Polished Tool Steel Cutters. Each

No. 444—Length 9 in.; Weight each about 5½ lbs. . $10.50

No. 444 cuts both tongue and groove for dove-tail work Four Cutters are furnished with each Plane, three of which are for Cutting Grooves of Different Sizes, and one for Cutting Tongues of any Size Complete Instructions for Operating Accompany each Plane

One in a Wood Box.

COMBINED BEADING AND MATCHING

CAST IRON FRAMES AND CAPS; Tempered and Polished Tool Steel Cutters

NICKEL PLATED, Including Beading Cutters ⅜, 5/16, 7/16, ½, 9/16, ⅝, 11/16 and ¾ in., and One Pair of ⅛ in. Matching Cutters. Each

No. 50—Length 9½ in.; Weight each about 3 lbs. $6.50

This Tool for Ordinary Beading or for Center Beading can not be surpassed By Adjustment of the Fence, Center Beading can be done up to five inches from the Edge of a Board. Except for working across the Grain, the Spurs need not be used

One in a Cardboard Box.

STANLEY'S BEADING RABBET AND SLITTING COMBINED

NICKEL PLATED CAST IRON FRAMES; Mahogany Handles, Tempered and Polished Tool Steel Cutters.

No. 45—Length 11 in; Weight each about 9½ lbs. ... $12.00

This Plane embraces a Beading and Center Beading Plane, Rabbet and Fillietster, Dado, Plow, Matching Plane, Superior Slitting Plane and Sash Plane.

Each Plane has Seven Beading Tools (⅜, 5/16, ⅜, 7/16, ½, 9/16, ⅝, 11/16 and ¾ in.) Ten Plow and Dado Bits (⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝ and ¾ in.); a Slitting Blade, a Sash Tool and Tonguing Tool.

One in a Wood Box.

HOLLOWS AND ROUNDS WITH CUTTERS.

Japanned Cast Iron, Polished Faces, Steel Set Screws. For use on Stanley's Plane No. 45.

	6 S	8 S	10 S	12 S
Cutter, wide, inches	¾	¾	1	1
Works, circle inches	¾	1	1¼	1½
Per pair	$2.30	$2.20	$2.10	$2.40

One in a Cardboard Box; Weight Each about 2 lbs.

ADJUSTABLE PLANES.

COMBINED.

TRAUT'S ADJUSTABLE DADO, PLOW, ETC.

NICKEL PLATED CAST IRON FRAMES; Mahogany Handles, Tempered and Polished Tool Steel Cutters.

Each

No. 46—Length 10 in.; Weight each about 5½ lbs. . $7.20 Complete with Eight Plow and Dado Bits (3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝ and 1¼ inch), a Filletster Cutter, a Tonguing Tool and a Slitting Tool.

Planes Nos. 45 and 46 combine a Main Stock and a Sliding Section so arranged that Cutters of Different Widths can be used. Each Plane is fitted with Adjustable Fence or Guide and a Depth Gauge, and also with Spurs for use in working across the Grain. Can be used Right or Left Hand.

One in a Wood Box.

Cut Shows Slitting Gauge with Planes Nos. 45 and 46.

Slitting Attachment with Planes Nos. 45 and 46. The Improvement is an Important One, as Carpenters who have not the convenient use of Circular Saws can with this Slitting Tool Rapidly Slit Up their stuff for Fitting Up Doors and Windows, or Kindred Work.

SIEGLEY'S COMBINED

NICKEL PLATED Cast Iron Frame; Mahogany Handle; Steel Adjusting Screws; Tempered and Polished Tool Steel Cutters. This Tool is a Combination Plow, Dado, Side and Center Bead Plane. It includes the following Bits: Plow Bits, 3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16, ⅝, ¾ in; Bead Plane Bits, 3/16, ¼, 5/16, ⅜, 7/16, ½ in.; Match Bit, ⅛ in.

No. 2/3C—Length 10½ in.; Weight each about 7¾ lb. ... Each, $11.50

One in a Wood Box

EDGE TRIMMING PLANES.

STANLEY'S.

Japanned Cast Iron Frame and Clamp; Tempered and Polished Tool Steel Cutter.

No. 95—Length 6 in; ¾ in. Cutter; Weight each about 1¾ lbs. $1.80

One in a Cardboard Box.

This Plane is designed for trimming or smoothing the ends of boards for a close fit, cutter works across grain, giving an easy shoving cut.

ADJUSTABLE PLANES.

COMBINED.

This Tool, in the Hands of an Ordinary Carpenter, can be Used for All Lines of Work covered by a full assortment of so called Fancy Planes.

STANLEY'S PATENT UNIVERSAL.

NICKEL PLATED CAST IRON FRAME; Mahogany Handles, Steel Adjusting Screws; Tempered and Polished Tool Steel Cutters.

	Each
No. 35—With 52 Cutters; Weight each about 15½ lbs.	$22.00

The 52 Cutters are arranged in four separate cases.

This Plane consists of:

A Main Stock (A) with Two Sets of Transverse Sliding Arms, a Depth Gauge (F) Adjusted by a Screw, and a Slitting Cutter with Stop

A Sliding Section (B), with a Vertically Adjustable Bot-

The Auxiliary Center Bottom (C) is to be Placed in Front of the Cutter, as an Extra Support, or Stop, when needed. This Bottom is Adjusted Both Vertically and Laterally.

Fences (D) and (E). Fence D has a Lateral Adjustment by means of a Screw, for Extra Fine Work. The Fences can be Used on Either Side of the Plane, and the Rosewood Guides can be Tilted to Any Desired Angle, up to 45 degrees, by Loosening the Screws on the Face. Fence (E) can be Reversed for Center Beading Wide Boards

An Adjustable Stop, to be used in Beading the Edges of Matched Boards, is Inserted on the Left Hand Side of Sliding Section (B).

DIRECTIONS.

Moulding Plane.—Insert the Desired Cutter and Adjust Bottom of Sliding Section (B) to Conform to the Shape of the Cutter, then Fasten this Section Firmly by means of the Check-Nuts on the Transverse Arms. When needed, Adjust Auxiliary Center Bottom (C) for an Additional Support in Front of the Cutter. By Tilting the Rosewood Guides on Fences D and E, Mouldings of Various Angles may be formed

Match, Sash, Beading, Reeding, Fluting, Hollow, Round Plow, Rabbet and Filletster Plane.—Use in same manner as for Mouldings. In working Match and Sash Cutters, the Auxiliary Center Bottom (C) may be Used as a Stop.

Dado.—Remove the Fences (D and E) and Set the Spurs Parallel with the Edges of Cutter. Insert Long Adjustable Stop on Left Hand Side of Sliding Section

Slitting Plane.—Insert the Cutter and Stop on Right Hand Side of the Main Stock and use Fence D or E for Guide

Chamfer.—Insert the Desired Cutter, Fasten to Fence on Each Side of the Plane and Tilt the Rosewood Guides to the Desired Angle.

‡CHUTE BOARDS.

‡STANLEY'S.

THE BOARD is of Ribbed Construction, ⅛ in. thick, and has an Adjustable Runway for the Plane

THE SWIVEL is Inserted for Cutting a Square end a Miter, but can be Fastened with the Clamping Screw at any Desired Angle Between Zero and Ninety Degrees

THE PLANE IRON being Fitted with a Lateral Adjustment, a Cut Giving any One any Draft to a Pattern can be Made.

THE SLIDING BACK will Support the Work Close to the Plane, Preventing it from Splintering

THE SLIDING BACK CLAMP will Hold any Shaped Work in Position to be Planed

THE PLANE IS SPECIALLY Constructed to Fit the Board, and the Iron is Set on a Skew, Making a Smooth, Keen Cut.

THIS TOOL, Sometimes Called a Jack Board, is a very Important one to All Wood Workers, especially Pattern and Cabinet Makers; it is also Useful for Amateurs.

	Each
‡No. 52—JAPANNED CAST IRON BOARD, PLANE AND CAPS; Polished Face; Steel Clamp Screws; Polished Rosewood Handles, Tempered and Polished Tool Steel Cutters; Screw and Lever Adjustment; Length 22 in.; Width 8 in.; Size of Cutter 2½ in.; Weight each about 35 lbs	$16.50

One in a Wood Box

PLANE IRONS.

KEEN KUTTER

FORGED FROM HIGHEST GRADE CRUCIBLE STEEL, EXTRA HEAVY, which Prevents "Chattering"; Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE.

SINGLE OR CUT: For *KEEN KUTTER** Wood Bottom and Iron Planes.

Nos.	KC 1¾	KC 2
Size, inches	1¾	2
Weight dozen about, lbs.	4	5
Per dozen	$5.00	5.50

Nos.	KC 2¼	KC 2½	KC 2¾	KC 3¼
Size, inches	2¼	2½	2¾	3¼
Wgt. per doz. about lbs	6	7	8	8
Per Dozen	$5.70	6.00	6.50	7.50

One-half Dozen in a Wood Box

DOUBLE: For *KEEN KUTTER** Iron Planes.

Nos.	KID1¾	KID2
Size, inches	1¾	2
Weight dozen about, lbs.	7	9
Per dozen	$7.70	8.00

Nos.	KID2¼	KID2½	KID2¾
Size, inches	2¼	2½	2¾
Wgt. per dozen about, lbs	10	11½	13½
Per Dozen	$9.50	9.50	11.00

DOUBLE; For *KEEN KUTTER** Wood Bottom Planes.

Nos.	KWD1¾	KWD2	KWD2¼	KWD2½	KWD2¾
Size, inches	1¾	2	2¼	2½	2¾
Weight dozen about, lbs.	7¾	8¾	9¾	11¼	12
Per dozen	$7.70	8.00	8.50	9.50	11.00

One-quarter Dozen in a Wood Box.

SOFT STEEL FORGED BODY, with Highest Grade Crucible Steel Bit, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE

Will Fit Wood Bench Planes Only.

Will Fit Wood Bench Planes Only

*KEEN KUTTER**; SINGLE OR CUT.

Nos.	K102	K102¼	K102½
Size, inches	2	2¼	2½
Weight per dozen about, lbs.	6½	7	7¼
Per dozen	$6.50	7.00	7.50

Nos.	K102¾	K1021¼	K1021½
Size, inches	2¾	3	3¼
Weight per dozen about, lbs.	7¾	8¼	8½
Per dozen	$8.50	9.00	10.00

Will Fit Wood Bench Planes Only.

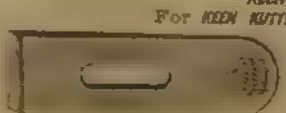
*KEEN KUTTER**; DOUBLE

Nos.	K122	K122¼	K122½
Size, inches	2	2¼	2½
Weight per dozen about, lbs.	9	10	11
Per dozen	$12.70	13.00	13.50

Nos.	K122¾	K123¼	K123½
Size, inches	2¾	2½	2¾
Weight per dozen about, lbs.	12	13	14
Per Dozen	$14.50	16.00	18.00

*KEEN KUTTER**

For *KEEN KUTTER** Block Planes.



FORGED FROM HIGHEST GRADE CRUCIBLE STEEL, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE

	Per Dozen
No. KBP1—Size 1¾ in.; For Planes Nos. K9½, K9¾, K17, K18 and K19	$3.50
No. KBP2—Size 1⅝ in.; For Planes Nos. K110 and K140	2.50
No. KBP3—Size 1¾ in.; For Planes Nos. K9 and K220	3.70
No. KBP4—Size 1¾ in.; For Plane No. K21	3.30
No. KBP5—Size 1¼ in.; For Plane No. K62	2.00
No. KBP6—Size 1⅜ in.; For Plane No. K103	2.00
No. KBP7—Size 1⅛ in.; For Plane No. K60	3.30

One Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

‡Goods marked "a ‡" are not carried in stock and can only be furnished by shipment direct from factory

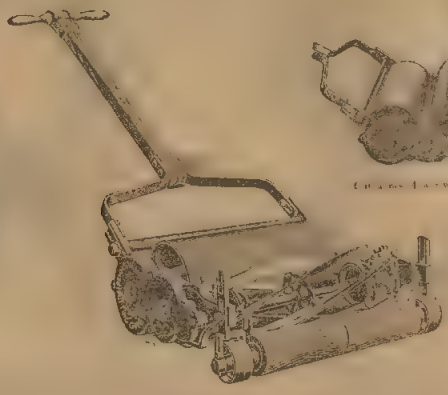
PUTTING GREEN MOWERS

PENNSYLVANIA

Complete With Grass Box

Note

The Cr[illegible] which are fur[illegible] Mower are used as two patterns—the first prepared [illegible] Small [illegible] Deflector, to deflect the Grass toward the Box. They are made without Mulching Wood Frame [illegible] Artificial Deflector



Cut shows Mower with Grass Box attached

Cut shows Mower with Deflector attached

The [illegible] manufacturers [illegible] have made a careful study of the Pennsylvania Ground Horse Mower [illegible] and have succeeded in producing a machine [illegible] for [illegible] rollers [illegible] and [illegible] wheels [illegible]

The Pennsylvania Putting Green Mower is [illegible] of the Pennsylvania Ground Horse Mower [illegible]

The Shafts, Handles [illegible] Frames, belonging to Adjustment [illegible] and the Cutting [illegible] are Self Sharpening. [illegible] Pitch [illegible] Pitch [illegible] Grease Cups [illegible] Bearings [illegible] Rear Roller [illegible] Front Roll [illegible] cast steel parts.

All Blades in this Mower are Crucible Tool Steel, Oil Tempered and Harvested

Diameter of Rollers 7 inches Diameter of Cylinder 5 ½ inches, Six Blades

Width of Cut, Inches	14	16	18
Shipping Weight, [illegible]	[illegible]	[illegible]	[illegible]
Each	33 50	35 00	37 00

PUTTING GREEN MOWERS

PENNSYLVANIA

Complete With Grass Box

Note

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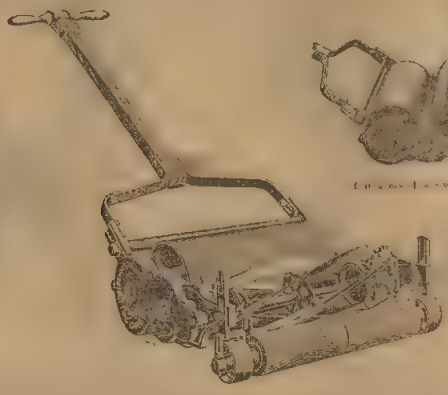

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All Blades in this Mower are Crucible Tool Steel, Oil Tempered and Harvested

Diameter of Rollers 7 inches Diameter of Cylinder 5 ½ inches, Six Blades

Width of Cut, Inches	14	16	18
Shipping Weight, [illegible]	[illegible]	[illegible]	[illegible]
Each	33 50	35 00	37 00

KOHLMANN BABY GRAND PIANOS

Width, 4 feet 8 inches
Length, 5 feet 8 inches

No. 35773
Genuine Circassian Walnut
$1,333.35

Description:

All Kohlmann Grand Pianos are constructed along modern and improved lines and have attained a perfection of tonal quality and capacity a — clearness and purity — not found in many of the older makes.

The workmanship is of the highest standard; the architectural designs are refined, chased and imposing; the veneers used are specially selected for their beautiful grains and are finished in their natural colors.

This style is finished in Circassian Walnut and represents a composite of the Sheraton and Colonial Period architecture. It is double veneered throughout; legs and lyre proportioned in harmony with case; continuous hinges on top and fall-board; leg-ends encased in brass socket castors.

Specifications of Interior Construction:

Full metal frame; full copper overstrung bass; three pedals; bushed tuning pins; laminated acoustic rim; capo d'astro bar; double repeating action, perfectly regulated. The scale is ideally even; the Key-touch is delicate and responsive and will sustain all demands of either the advanced artist or the beginner.

Below we list a few of the latest selections

88 and 65 Note Player Piano Rolls

Complete list furnished upon application.

ROLL NO.		PRICE
65171	Po Starodvenu (Ye Olden Days). Mazurka. Fr. Knorr	$ .15
6512	Ta Anna Laska, Pochod. (Our Love March) Fr. Knorch	2 .15
65173	Karol Havlicek Borovesky. Pochod. Jos. Smetana	1 .60
65174	Zapomen (Forget) Pouha Jasger	1 .60
65175	Radujme Kolibe. Puchod & Tuxtum. Fr. Knorch	1 .60
65176	Moonlight Waltzes. (Fri. Medley) Arthur J. Marsh	1 .60
65177	Zapadoce. Pochod a Tuxtum. Fr. Knorch	1 .60
65178	Chanka. Polka Two-Step. A. L. Vymetal	1 .60
65179	My Little Wahaipi Indian Song. Ena Smetanka	1 .60
65180	Lochaynessa, The. (Selection) Victor Herbert	1 .75
65181	Over the River. Selection. Arranged by M. E. Brown	3 .75
6518	Never Here, The. (Selection)	
65184	Chicken Rag. Fox Trot Song. A. Baldwin Sloane	3 .75
65185	I Hear You Calling Me. (Sacred Song) Harold Mellish	.60
65186	Maidenly Ways. Marie A. White	2 .15
65187	Mandy's Midnight Dance. Pop. Jazz Song. Mabel Wayne	1 .60
65188	Corrugated Rag. Fox Trot Medley	1 .60
65189	Parade of the Tin Soldiers. (Oh Marie) Leroy Shaw	.60
65190	I Don't Care Whom Girl You Were, You're My Lord Jesus. Wilbur M. Walker	1 .60
65191	Legend Waltzes. Selection. Jos. Waldteufel	2 .15
65192	Don't Take Mama With You. Medley Fox Trot	1 .60
65193	Rose-a-Rag. Marie A. White	2 .15
65194	When I Get Out The Selection. Ray Hibbeler	3 .75
65195	Modest Suggestion. Selection. Jos. Tabit	3 .75
65196	Whistle and Wait. Two-Step Introduction. Roy L. Keck	1 .60
65197	Ah, the World Is Full of Love. (Adored One) Jean Schwartz	2 .15
65198	Don't Blame Me for Lovin' You. Popular Song. Chas. B. Harris	1 .60
65199	If I Had Some Place to Go. (Where Somewhere Else Is Calling Me) Medley Waltz. The Heart Breakers	
65200	Horseshoe Rag. Fox Trot Medley	1 .60
65201	Little Boy Blue. Selection. Henri Deering	1 .60
65202	Rum Tum Tiddle. (The Red Rose) Jean Schwartz	1 .60
65203	You'd Want Me Back. Popular Song. Sigmund Spaeth & Howard Brockway	2 .15
65204	Oh That Opening Rag. Medley Song. Sandford L. Bernard	1 .60
65205	You've Got Me Hypnotized. Popular Song. Irving Berlin	1 .60
65206	The Minstrel Man. A Rag. J. Lamar Stamper	1 .60
65207	The Shadow of a Rag. March and Two-Step. Percy Wenrich	1 .60
65208	Every Lady's Doin' It Now. Popular Song. Irving Berlin	2 .15
65209	Somebody Else Will Fill You Dear. Albert von tilzer	1 .60
65210	The Gallop. (In Arena Sports)	
65211	Bees-Wax Rag. Louis A. Hirsch	1 .60
65212	Grace and Beauty Medley. Harry J. Lincoln	3 .75
	Arranged by Frank L. Granse	

ROLL NO.		PRICE
65213	When I Was Twenty-One and You Were Sweet Sixteen. Williams and Van Alstyne	3 .60
65169	The Rose of Panama (Patriotic Selection) Harold Bee	3 .75
65170	Betsy. Selection. Alexander Hosmer	2 .75
65171	Love's Fond Dream. (How I Love and Idolize You) Edward Berry	2 .15
65172	At the Ragtime Ball. Popular Song. Howard Monaco	1 .60
6517	The Love Waltz. (The Wedding Trip) Reginald De Koven	2 .15
65174	When I Was a Girl I Used to Sing. Al Piantadosi	2 .15
65175	When Broadway Was a Path. Al Piantadosi	2 .15
65176	Love Never Dies. (Little Boy Blue) Henri Berenz	.60
6517	Remember Me to My Old Girl. Al W. Brown	1 .60
6517	Come With Me to Spooney Land. Madden and Piantadosi	1 .60
65179	Hawaiian Rag. Fox Trot Song. Jas. E. Bolo	1 .60
65180	Jazz-o-la. Rag Two Step. Jas. E. Bolo	1 .60
65181	Sousa's Military Two-Step. Arr. de Luxe	.75
65182	Take Me Back to the Garden of Love. Al Piantadosi	2 .15
65183	Intermezzo. (Cavalleria Rusticana) Pietro Mascagni	1 .60
65184	They Always Pick a Man to Marry. Al W. Brown	1 .60
65185	In the Heart of Arabia. Arranged by M. E. Brown	3 .75
65186	Ol' Man Mose. Pop. Jazz Song. Jimmy A. Monaco	1 .60
65187	Harmony of Love. Waltz. C. H. Gilman	3 .20
65188	The Farmer and the Jay. Al Baldwin Sloane	1 .60
65189	Hyacinth. Rag Two-Step. George Botsford	1 .60
65190	The Turkey Trot. George W. Meyer	1 .75
65191	My Dreams Are All of Yesterday. N. E. Carter	2 .15
65192	Love Is the Theme of My Dreams. Kerry Mills	1 .60
65193	Come With Me Moon. Popular Song. Howard Berry	1 .60
65194	Whirlwind Rag. J. Russel Robinson	1 .60
65195	Ming Favorites. Arranged by M. E. Brown	2 .15
65196	Carl Fenton's Original Medley Fox Trot	1 .60
65197	Hearts a Quiver. Waltz. Percy Wenrich	2 .15
65198	Lickety-Split. Opus 70, No. 2. C. Kohlmann	1 .60
65199	Down Kagey. March and Two-Step. Theron R. Bell	2 .15
65200	Brass and Ephraim Rag. Geo. W. Meyer	.60
65201	Garland of Old Fashioned Roses. C. Clinton Keithley	2 .15
65202	Moonlight Bay. Popular Song. Percy Wenrich	1 .60
65203	Sponge Cake. Two-Step. Arthur J. Marsh	1 .60
65204	The Pearl Makers. Selection. Lamar Stamper	3 .75
65205	The Opera Hat. Selection. Herbgruner and Kern	3 .15
65206	A Wee Little Drop o' the Crathieside. Lauder	1 .60
65207	That Dramatic Rag. Novelty Rag. Fred Heid	1 .60
65208	Rod Me around Like a Hop o' My Thumb. Lyn Udall Seiber	.60
65209	Baby Boy. Popular Song. Al W. Brown	1 .60
65210	Turkish Towel Rag. (A Rib-Tickler) Louis A. Hirsch	2 .15
65211	That Haunting Melody. March Song. George W. Cobb	1 .60
65212	The Garden of Allah. Intermezzo. Robert A. Keiser	2 .15
65213	Sunburn. Waltz Intermezzo. Arthur Rodgers	2 .15
65214	Hoggenheimer's Love. Popular Song. Geo. W. Meyer	1 .60
65215	The Great Scott Rag. Harry Von Tilzer	2 .10
65216	Eastern Rose. Oriental Dance. Arranged by M. E. Brown	3 .75

ROLL NO.		PRICE
65290	In Ragtime Land. Terry Sherman	1 .60
65291	You Can't Expect Kisses from Me. Rubey Cowan	1 .60
65292	Red Onion Rag. Al Piantadosi	2 .15
65293	Rates Medley, No. 2. Arranged by M. E. Brown	3 .75
65294	Flower and Florida Jubilee. Arranged by M. E. Brown	3 .75
65295	I Want One Like Pa Had Yesterday. Wm. Dillon	1 .60
65296	That Slippery Slide Trombone. Robert Van Alstyne	1 .60
65297	Harry Moon. Popular Song. Chas. K. Harris	1 .60
65298	That's the Kind of Fellow That I Could Love. Al Piantadosi	.60
65299	Misslesippi Tissee Rag. Two-Step. Joseph Cusick	1 .60
65300	That Raggedy Rag. Medley Rag. C. H. Hoyer	1 .15
65301	That Medley-Cello Medley. Orch. Arr.	2 .15
65302	Zelda Waltzes. Theron R. Bell	2 .15
65303	That Jazz Band. Popular Song. Theodore Morse	1 .60
65304	Chimes. (A Novelty Rag. Arranger Henry Lange	1 .60
65305	The Last Rose of Summer. Opus 72. Jos. Blamire	3 .20
65306	Ragtime Cavalier. Arranged by M. E. Brown	3 .75
65307	Army and Navy. March and Two-Step. Joseph Lamb	2 .15
65308	The Hour of Love. Popular Song. Fred Fisher	1 .60
65309	Waves. (Rest Assured) Jas. E. Bolo	1 .60
65310	Wrong My Dear. Popular Song. Al W. Brown	1 .60
65311	Ragtime Temptation. Two-Step. Theron R. Bell	2 .15
65312	Lovers. Waltz de Luxe. Jerome Andrews	.60
65313	I'm Going Back to Dixie. Berlin and Snyder	1 .60
65314	Mysterious Moon. March Song. Howard Berry	1 .60
65315	Jamaica Ginger. A Hot Rag. Edward Van Alstyne	1 .60
65316	That Rolling Log Time. Popular Song. Jack Brooks	1 .60
65317	In Merry, Merry May. I. Bosworth Langley	.60
65318	My Little Persian Rose. Abe Holzmann	1 .60
65319	Rose Queen. Two-Step. Fred Stone	1 .60
65320	Step to the Music Over There. Cupe Thompson	1 .60
65321	Your Lucky Day in Egypt. (I'll Be Waiting) Ago	2 .15
65322	Way Down South. Popular Song. George Backman	1 .60
65323	Because He Wants Me. Marie A. White	3 .20
65324	Hearts to Hearts. Love Melody. Phil Ponce	1 .60
65325	Turkey Trot. Rag Two-Step. Irving Berlin	1 .15
65326	The Bitters. Theo. Bendix	1 .20
65327	Mack of Mill Rag. Mac Nile & Walsh and Stradely	1 .60
65328	Fog Horn Player. Sea Effects. Lawrence J. Connor	2 .15
65329	That's Where I Am Good For. Lawrence J. Connor	.60
65330	My Sunburn Girl. (Wheel of Song) Louis A. Hirsch	1 .60
65331	That Natural Rag. Ettore Bernardo	1 .60
65332	Roses and Violets. Waltzes. Jos. M. Daly	2 .20
65333	That's My Personality. Albert Von Tilzer	1 .60
65334	Spanish Rhapsody. Novelty Two-Step. Howard Dalton	2 .15
65335	Rubies and Pearls. Rag. Harry Aubrey	1 .60
65336	Dixie Moon. Popular Song. Albert Gumble	1 .60
65337	I'm Alabama Bound. Popular Song. Ben Hoffman	1 .60
65338	Good-bye Everybody. (A Modern Farewell) Jos. C. Burk	1 .60

KOHLMANN PIANOS

Stool Included with Each Piano

Kohlmann Colonial Grand

A plain but artistic design. Case is double veneered inside and out; outside with fancy mahogany and oak veneer, inside with white maple. Colonial in design. Pilasters and trusses to match its appearance; full empire top, drop mouldings, making the case very symmetrical and refined.

Full overstrung scale, 7⅓ octaves, hardwood back, six posts, imported German tuning pins and wire; 13-lb. hammers; laminated pin block, compound key bottom, triple repeating action, splendidly regulated. Ivory keys and 3 nickel-plated pedals.

We can furnish this piano in plain top panel or with some ornamentation. This instrument is guaranteed for ten years from date of its manufacture, and is furnished in beautifully figured mahogany and fancy oak veneers.

Height, 4 feet 8½ inches; width, 5 feet 4½ inches, depth, 2 feet 3½ inches.

No. **35750**	Mahogany	**$345.90**
No. **35751**	Golden Oak	**345.90**
No. **35752**	Dark English Oak	**345.90**

Kohlmann Parlor Grand

This instrument is beautifully designed, pleasing in its appearance, having hand-carved trusses and pilasters which gives this piano a very symmetrical and attractive appearance. Is massive in its construction, double veneered inside and out; furnished in beautiful walnut, mahogany and oak veneers. A very substantial back, made of hardwood posts (six), laminated pin block, consisting of five layers of wood, crossing one another at right angles, and made up from the choicest rock maple. Sounding board of the best quality of spruce and ribs of the same material, which are notched into the lining and acoustic rim. The toe blocks and arms are all laminated construction. Keyboard is so constructed as to withstand all atmospheric changes.

This instrument is equipped with full bronzed plate, reaching from top to bottom; bushed tuning pins; copper bass; music wire of German importation and imported German tuning pins. Is equipped with splendid triple repeating action, best quality of 13-pound hammers, and ivory keys.

Height, 4 feet 8 inches; width, 5 feet 4½ inches; depth, 2 feet 3½ inches.

No. **35753**	Mahogany	**$425.50**
No. **35754**	Walnut	**425.50**
No. **35755**	Golden Oak	**425.50**
No. **35756**	Dark English Oak	**425.50**

The possession of a piano denotes a sense of refinement and a desire for the betterment of the family.

KOHLMANN PIANOS

Stool included with each Piano

Kohlmann Empire Grand

Exquisite semi-empire design; empire top; case double veneered throughout and lined inside with white maple. Case has very handsome hand carved pilasters and top panel ornaments.

Veneers used are of the best quality in mahogany, walnut and oak. This instrument has a beautiful scale, well balanced, with splendid tone results; full plate; bushed tuning pins; German imported strings and tuning pins; laminated bridges, both treble and bass; 13-pound hammers of the best domestic quality; Billings brass flange action, copper wound bass strings, ivory keys, patent noiseless trap work; double wheel casters.

Back consists of six rock maple posts, scientifically constructed and well finished. The exterior is pleasing in design and splendidly finished. Instrument warranted for ten years.

Plain highly polished panel may be had on order.

Height, 4 feet 10 inches; width, 5 feet 4½ inches; depth, 2 feet 3½ inches.

No. 35757.	Mahogany	$527.00
No. 35758.	Walnut	527.00
No. 35759.	Golden Oak	527.00
No. 35760.	Dark English Oak	527.00

Kohlmann Imperial Grand

Grand Scale Upright, 7⅓ Octaves, Hand-carved pilasters and art panel

Description:

This piano is double veneered throughout in remarkably beautiful walnut and mahogany veneers; hand-carved pilasters of handsome design, together with beautifully designed art panel, giving this piano a very distinctive and individual appearance. Extra heavy quarter sawed rock maple back, giving great strength and rigidity, which will withstand all tension imposed on finest class instrument. The scale, tone, touch and action are all that could be desired in a high class instrument.

Specifications of Interior Construction:

This piano is furnished with either continuous brass flange action or Billings brass flange; 14-pound imported hammers, copper strings, empire top, top being hinged in Grand Piano style, fine ivory keys. Piano is equipped with laminated bass scale, laminated bridges, laminated Pin Block, compensated key bed, which will insure absolute stability and uniformity of touch, and is not subject to atmospheric changes. Is equipped with patented steel trap work, absolutely noiseless and mouse-proof.

Height, 4 feet 10 inches; width, 5 feet 4½ inches, depth, 2 feet 2½ inches.

No. 35761.	Mahogany	$666.70
No. 35762.	Walnut	666.70
No. 35763.	Golden Oak	666.70
No. 35764.	Dark English Oak	666.70

"A piano in the home, once a rarity, then a proud possession of the wealthy, is now a necessity."

KOHLMANN PLAYER PIANOS

The Most Wonderful Invention of the Twentieth Century

After a most careful study and experimentation of the many players on the market we offer the Kohlmann Player Piano as one that is worthy and fitted to bring out the musical excellence. It is a perfected piece of mechanism that is beyond criticism of the most gifted player. We present a Standard Player of the most approved type at the price of an ordinary piano.

The Kohlmann Player Attachment consists of three principal units— the Motor Action located back of the upper panel of which the Music Rolls are a part. The Vacuum System—a one-piece unit placed behind the lower panel beneath the Key Board and the Pneumatic System placed behind the Fall Board above the Key Board.

These three principals are connected together with the piano-action by many ingenious parts that have been worked out and improved to a point approaching perfection. All of these parts and fixtures are out of sight and the only outward appearance of them is the music-roll, the pedals, three buttons and a tempo lever. The music-roll and pedals practically vanish when the player-attachment is not in use. The music-roll disappears from sight behind ornamental panels and the pedals retreat leaving only the small slide visible on each side of the piano inches. The three buttons also bring assistance of the other two, and the bass register with the tempo lever, take care of tempo and intensity, these are all very necessary to the player and extremely easy to operate. They enable the user without any practice to render most satisfying and "accented" music with delicacy of expression and nice musical effect.

THE MOTOR is one of the strongest features of the Kohlmann mark of player-pianos. It is a metal, three-cylinder motor with top and bottom impulse to each of the three pistons which makes it a six-point action. This little engine is the very heart of the organism and its rhythmic beats operate a regulator and controls the working of the entire action.

There are no complicated cams about this motor; it occupies but little space and is all mechanical efficiency; its simplicity makes it trouble-proof and it will not get out of adjustment with constant and hard usage.

THE GOVERNOR is an essential and necessary adjunct of the motor in that it automatically imparts to the engine a steady pneumatic pressure whenever the pedals are worked fast or slow. Governor is provided with a special form of valve and this with two adjusting set-screws regulates the only parts employed.

THE PEDALS in the Kohlmann player fold up and slide into the case at the bottom beside the regular piano pedals and when thus aid in reveal only their very small ends. These pedals are a great improvement over most others in the matter of ease of operation and the instrument can be started. They use will run three minutes and have compared the item of fatigue from player pianos.

OTHER FEATURES of the player action are the general high grade quality of materials used, the fine alignment and balance of the works and the second to none quality of the whole.

Player Bench and Six Player Rolls included.

Kohlmann Cabinet Grand

7⅓ Octaves

CASE is very chaste and dignified in appearance and altogether a stately instrument of delightful individuality, possessing an air of refinement that makes it fit setting for either elegant or comely surroundings. The symmetrical treatment of upper panel is very striking. An ornate cornice moulding runs across the entire top of this panel being overlaps by the panno-top, three smaller panels are moulded off from this cornice the center, or larger of these three having the music roll opening which is protected by a sliding door (shown partly open in the illustration), while a richly carved wreath embellishes the center of each of the other two panels. Trusses are square and tapering with hand carved capes; pilasters are fluted with plain top and bottom ornaments. Handsomely finished in high-grade veneers of either Oak, Walnut or Mahogany; inside veneered with White Maple. Fine Empire top with "Grand" hinges.

BACK is uncommonly strong in construction, having six finished posts of Rock Maple. Bridges, in both treble and bass, as well as the outer rim and pin-block, are built-up (laminated) from the same fine wood while the ribs and sounding board are of the highest quality of Mountain spruce the latter being crowned to preserve a lasting quality of tone.

INTERIOR has compound key-board, double Billings' repeating brass-flange action, 14-pound hammers, laminated bridges in treble and bass; extra heavy re-enforced bell metal plate, imported German tuning pins and wire, copper-wound bass, continuous hinges on fall board, 3 brass pedals, 7⅓ octaves.

PLAYER ATTACHMENT. All standard music may be used. Made regularly in 88 note, 65 note made to order.

Height, 4 feet 9 inches, width, 5 feet 3½ inches; depth, 2 feet 8½ inches.

No. 36765	Mahogany	$930.00
No. 36766	Walnut	930.00
No. 36767	Golden Oak	930.00
No. 36768	Dark English Oak	930.00

Kohlmann Colonial Grand

CASE is of attractive proportions and delightfully symmetrical. The square fluted frames with pilasters to correspond below is noticeable for its grace in architecture while the square, high cut cheek is suggestive of colonial simplicity. Trusses have molded bases and carved caps; pilasters have top and bottom ornaments. Lower panel is unbroken which brings out strongly the exquisite texture and finish of the veneer; upper panel is relieved by similar center panel in center of which is sliding door covering music roll. Inside of case veneered in White Maple. Has Empire top and genuine legs.

BACK is our regular sturdy and durable construction. Six Rock Maple posts give a wall of strength to the instrument. A genuine rim and bridges (both treble and bass) are of quarter sawed Rock Maple the ribs and sounding board of choicest Northern Spruce. Sounding board specially crowned to sustain string pressure and maintain lasting tone. Pin block of quarter sawed Rock Maple.

INTERIOR: Specifications embrace brass flange action of exceptional quality and great responsiveness, copper-wound bass strings; treble wire and tuning pins of finest imported quality; imported 14-pound hammers, three pedals, absolutely noiseless metal trap work, double whoeled castors, fine ivory keys. Scale is scientifically well balanced and acoustic quality is grand. Has a beautiful and sonorous tone of exceptional sweetness.

PLAYER ATTACHMENT: 88 note. All standard music may be used.

Height, 4 feet, 8 inches, width, 5 feet, 0¾ inches depth, 2 feet, 3½ inches.

No. 36769	Mahogany	$1105.00
No. 36770	Walnut	1105.00
No. 36771	Golden Oak	1105.00
No. 36772	Dark English Oak	1105.00

SPECIAL OFFER! With each Kohlmann Player Piano we will include high grade Player Bench, to match piano, and SIX Standard Perforated Music Rolls FREE.

KOHLMANN PIANOS

It is difficult for the average person to accurately judge a piano, as there are hundreds of makes and names—some of them good, yet many making insupportable claims.

The only real safeguard in buying a piano is the well-known reliability of the maker and his ability and facility today to produce a strictly high-grade instrument.

Kohlmann durability is second only to Kohlmann tone quality and both are strictly high grade. They are made in one of the largest factories in the world and is separate department has been installed at a big outlay of capital. These departments are equipped with the most modern machinery. Our great output and ability to purchase material in enormous quantities enables us to make a strictly high-grade instrument that can be sold for much less money than the now prevailing prices.

Kohlmann Pianos are backed by a guarantee that is unquestionable. With every piano we give you a binding certificate of warranty extending over a term of ten years. We have but one price—the lowest that a high grade instrument can be sold for.

Tone

"Kohlmann" tone is equal to that of the highest priced pianos on the market. Our own improved scale, acoustic rim and laminated bridges are special features which make "Kohlmann" tone of an ideally pure, full, vibrant singing quality and assure the purchaser of a life long musical enjoyment of that quality.

Scale Our new "Kohlmann" improved overstrung scale is "different"—the triumph of years of study and painstaking endeavor. It cannot be excelled in enhancing purity, sweetness and delicacy of expression with greatest volume. We claim that the "Kohlmann" piano possesses as near a perfect chromatic scale as is possible to produce in an upright piano. This means that the mathematical measurements of strings in connection with the proper gauge of music wire in the respective octaves, coupled with the necessary sounding board area to sustain the vibration of these strings is absolutely right. It is not a theoretical feature but has been accomplished only by years of study of acoustics and practical experience in piano-building. Men producing these pianos have gained their experience in the old schools of Europe as well as in the modern schools of America.

Stringing We use the capo d' astro system of stringing. This is the most modern as well as the only dependable method. The strings are all genuine imported Pohlman music wire, universally conceded the best made. They keep their tone, hold their pitch and will never stretch. We have three unisons to each note throughout the entire middle and upper sections and full double wound copper strings in the bass.

Laminated Bridges One of our special features. Constructed of seven ply material and built up into the most perfect tone conductor yet devised.

Sounding Board Our sounding board is scientifically constructed of the conveyed type, without impairing the necessary resistance, braced with specially selected grained mountain spruce ribs of tone bars, which graduate in thickness and strength, permitting easterity and flexibility.

Acoustic Rim Another special feature of "Kohlmann" pianos and one of the principal reasons for their superior tone. The laminated acoustic rim is built up of nine ply rock maple and by its construction and adjustment confines the volume within the proper tonal zone, enhancing its quality without creating overtone.

Action

Triple Repeating Our own action produced in our own factory, tried and tested for twenty-five years. Not an action that has obtained a name through expensive advertising spent for commercial purposes, but produced through actual scientific study and practical factory experience. Its construction is unsurpassed regarding mathematical layout of center points to obtain proper leverage for the purpose of securing power, yet lightness of touch, coupled with the so much desired elasticity of repetition. Action set on four nickel plated brackets with thumb screws, hammer felt and under felt carefully adjusted to hammer head, hammer rail line l with cloth. All essential parts as butt jack, wippen, etc., are of silver maple. All springs of finest material obtainable, all bushing cloth of strictly first quality, made from imported wool. All our pianos are equipped with these triple repeating actions, the famous "Billings" brass flanges which positively prevent the keys from sticking under any conditions. Only the very best material used throughout and perfect repetition guaranteed.

Keys The keys of all our pianos are genuine pure white ivory and ebony sharps. Perfectly balanced and carefully adjusted.

Trap Work All except our two lowest price instruments have the new patent steel trap work with steel pedals. The very latest construction and found only in pianos sold at much higher prices. Absolutely noiseless and mouseproof.

The Case

The handsome appearance, durability and tone of our "Kohlmann" pianos are due in a great measure to the extra care given to the materials of which the case is constructed, as well as to the judgment displayed in designing, carving and trimming. Our designs are original and high class in every particular—not the "gingerbread" effects which are in such poor taste, hard to take care of and tend to inferior tone quality.

[redacted] used are the best that the money can buy, carefully selected by experts and thoroughly seasoned by outdoor and dry kiln processes. "Kohlmann" pianos are made in four styles, genuine quarter sawed oak in golden or dark English finishes, also genuine walnut and mahogany veneers of the very choicest woods. All except our Colonial have empire grand top and grand hinges. Colonial has semi-empire top. Note that we use automatic music rests exclusively, also the latest improved Boston roll fall board with continuous nickel hinge.

Five-ply Veneered All "Kohlmann" cases are five-ply veneered. Next to the core, cross-banded, is a heavy poplar veneer; on each side next to this running in opposite grain is a birdseye maple veneer on the inside, and genuine oak, mahogany or walnut veneer on the outside. We guarantee that our piano cases will not shrink, swell, warp or split. They will stand the test of time and all atmospheric changes. We can emphatically say that no piano made has a better case construction.

Finish Unusual care is taken to produce the lasting brilliant luster finish of our pianos. After the veneering process two coats of the finest wood filler are used to close the pores of the wood. Six coats of best grand piano varnish are then applied and after each coat carefully and thoroughly hand rubbed and polished. A piano is not finished because it shines, for the cheapest varnish will produce a high gloss. We use only the highest grade varnish, made of genuine Zanzibar gum and the finest oils obtainable. It will not check or become hairlined under any climatic or atmospheric condition.

The Supports The frame construction of a piano is one of the very important features, and best can be realized when one considers that the tension on a first class instrument under concert pitch is about twenty tons. If the supports are not scientifically right the whole quality and durability is impaired. This is why a cheaply constructed instrument never can keep its tone and becomes a source of endless annoyance and expense.

Stanchions The six heavy posts in back support the pin block at top and form an unyielding back to which metal plate is securely bolted and the sounding board glued. These posts are made of massive rock maple of strictly selected grade and sound to the core.

Pin Block The pin block supports the tuning pins to which strings are attached. On the quality of materials used and careful, accurate construction of the pin block depends the length of time a piano will remain in tune. It is built up of five thicknesses of selected rock maple (not the common three ply), each layer crossbanding the next one, making tuning pins absolutely secure and prevents all possibility of warping or splitting. The holes are bored at a proper angle to make tuning easy. Our improved adjustment renders slipping absolutely impossible.

Plate The metal plate is really the back bone of a piano and, together with the pin block, must resist the tremendous strain of the strings. All our pianos have **full metal plates**, except "Artist Grand," which has a three-quarter plate with reinforced cap. Our plates are cast of finest quality bell metal, thoroughly tested and guaranteed flawless.

Toe Blocks The heavy weight and jar of piano must be borne by the toe block, which also holds the casters. In being the lowest part of piano is most exposed to dampness and our experience has proven that special construction is necessary to avoid splitting. The "Kohlmann" toe block is **compound** (not one piece,) so are the cheeks. Made of ten to twelve pieces of hardwood crossbanded and clamped together. The glue used in joining the different pieces is of the finest quality obtainable and prepared without chemical process. All this is to guarantee strength and durability and while more costly than the ordinary way, is also **more satisfactory**.

Key Bottom The new compound key bottom which supports the keys is also a special feature of the "Kohlmann" pianos. It is made with air spaces to prevent warping and the effects of climate changes.

An extra well rubbed polish, an extra coat or two of varnish are not sacrificed at the expense of a perfect finish. Some makers (and good ones, too) save on cost by veneering the outside only. Outward appearance is the same but lasting service and purity of tone are lacking. Our "Kohlmann" pianos are all double veneered and crossbanded **both** inside and outside. We do this because it makes a **better** piano and long experience has proven the **only** satisfactory kind.

Tuning The greatest care is given to tuning, adjusting and regulating our pianos, and when they leave our hands we endeavor to have them in perfect condition. Each instrument is gone over thoroughly five or more times by as many different experts, so that the slightest deficiency which might impair its excellence is noted and remedied.

Delivery

We guarantee careful handling and prompt delivery of all our instruments. Mahogany pianos can be shipped **immediately**. These being a biggest demand a large number are kept in work and in stock constantly. The other finishes, however, may be delayed a few days, according to the demand for the particular finish and style you order.

Guarantee

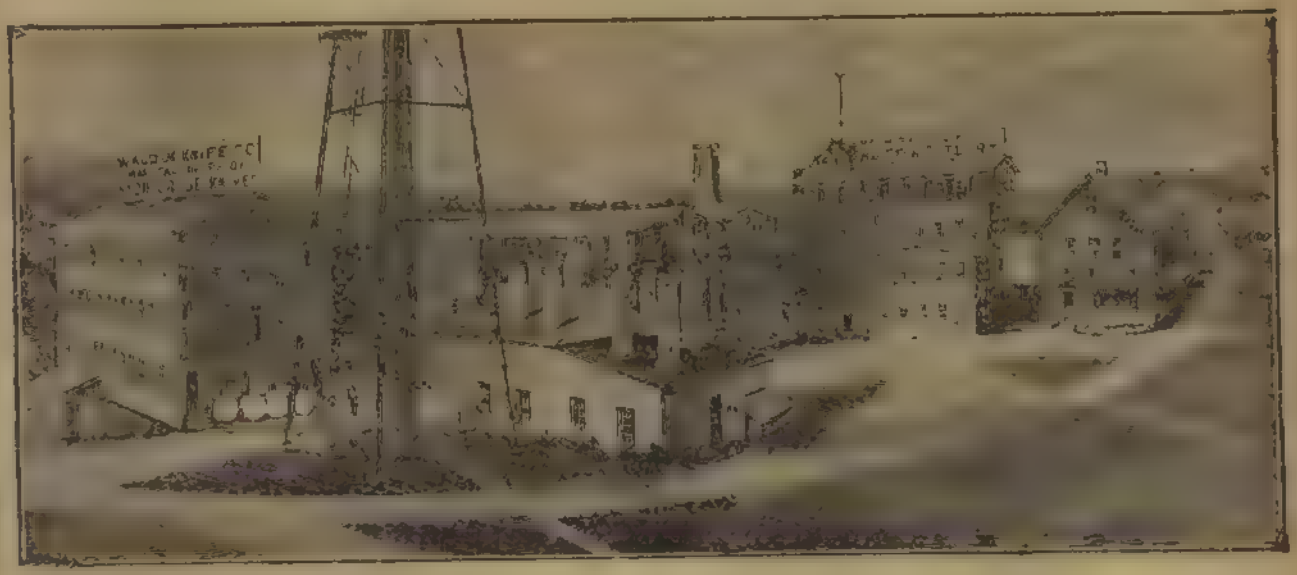
Being made of strictly first quality material throughout and by experienced, competent workmen, we can in good faith, and without reservation fully guarantee all our pianos for a term of ten years from date of manufacture. The sales of "Kohlmann" pianos are increasing by leaps and bounds, purely on the basis of merit and not through any special advertising. If these instruments were not far superior in make and musical excellence we would not have the most enviable record of complete satisfaction which comes to us daily. On request we will forward a copy of some of these unsolicited letters with name and address of the author.

Free Piano Stool

Stool is delivered **FREE** with each "Kohlmann" Piano. It has glass ball feet, 14 inch crossbanded seat, lathe turned spindles and legs, guaranteed not to pull apart. Fine stool hand rubbed and polished.

NOTE. When duet bench is ordered the difference is charged.

Where *KEEN KUTTER* Pocket Knives are Made



These illustrations show the Walden Knife Company at Walden, N. Y. (The largest Factory of its kind in the World), where we make all of our *KEEN KUTTER* POCKET KNIVES.

Occupies a Floor Space of about 60,000 Square Feet. Employs 535 Skilled Workmen.

KEEN KUTTER* POCKET KNIVES.

HOW THEY ARE MADE.

POCKET BLADES.

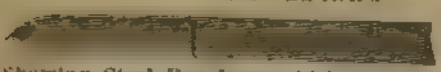
No. 1—Pocket Blade, for No. K2420, Partially Forged, Showing Steel Bar from which it is being Fashioned.

No. 2—Pocket Blade Forged, Ready for Hardening and Tempering or Grinding.

No. 3—Pocket Blade Ground, Ready for Drilling and Filing, or Drilling and Squaring.

No. 4—Pocket Blade Ready for Assembling, Filed and Dressed, or Drilled, Squared and Dressed

PEN BLADES.



No. 1—Pen blade for No. K2420, Partially Forged Showing Steel Bar from which it is being Fashioned.

No. 2—Pen Blade Forged, Ready for Hardening and Tempering or Grinding.

No. 3—Pen Blade Ground, Ready for Drilling and Filing or Drilling and Squaring.

No. 4—Pen Blade Ready for Assembling, Drilled, Filed and Dressed or Drilled, Squared and Dressed

No. 5—Spring Steel from which Spring is Produced

No. 6—Spring, Dressed and Drilled, Ready for Adjusting.

No. 7—Spring Adjusted, Filed, Hardened, Tempered and Dressed.

No. 8 Sheet Brass from which Linings are Pressed

No. 9—German Silver, from which Bolsters are made.

No. 10—Blank for Bolster, Pressed Ready for Stamping

No. 11—Bolster Stamped up, Ready to Fasten to Lining.

KEEN KUTTER* POCKET KNIVES.

HOW THEY ARE MADE.

No. 12—Brass Strip, Pierced, Ready to Receive Bolster.

No. 13—Bolsters "Chopped on" Lining, Ready for Passing through Pattern Dies.

No. 14—Scale Pressed, Ready for Drilling.

No. 15—Handle Covering, Ready for Fitting.

No. 16—Covering Fitted, Ready for Name Plate.

No. 17—Name Plates, or Shields and German Silver from which they are made.

No. 18—Scales, with Covering Fitted, Showing Name Plate and Reverse Side, Ready for Assembling into Handle

No. 19—Division Scale, or Center Lining.

No. 20—Knife Ready for Final Adjusting—Note Loose Rivets and General Rough Appearance of Knife

No. 21—Finished Knife

INFORMATION

REGARDING *KEEN KUTTER** POCKET KNIVES.

It is our aim to furnish, under the *KEEN KUTTER* Brand, the Highest Quality of Pocket Cutlery which can be produced. That we have accomplished this is shown by the Awards for the Highest Quality, granted to this line at the Louisiana Purchase Exposition, held in St. Louis, Mo., in 1904, and the Lewis & Clark Exposition, held in Portland, Ore., in 1905. We believe this result cannot fail to follow from the method which we use in the manufacture of the goods.

It is our constant aim to see that everything about the line is of absolutely the Highest Quality, from the selection of the Raw Material to the Wrapping and Packing of the finished product.

WORKMANSHIP—Nearly 90 per cent of the men who manufacture this line were schooled in the art of making Fine Cutlery in the best English factories, where they learned their trade, and where their fathers and grandfathers spent their lives in the manufacture of Pocket Knives. The men are liberally paid for their work, and are constantly reminded that the item of quality is of much more importance than quantity.

BLADES are made from the Highest Grade of English Crucible Steel imported especially for the purpose. They are Forged by hand from the Bar, and not stamped out from sheet steel (the method employed by many makers of Knives). They have an absolutely Uniform Temper, and are Whetted by Hand on an Oil Stone to a Sharp Cutting Edge, Ready for Use.

As specified in the description, the Blades are either Full Crocus Polished (I. e., each Blade Polished on Both Sides) or Half Polished (I. e., Large Blade Polished on One Side and other Blades Glazed Finish).

PATTERNS OF BLADES—The line contains every possible shape of Blades which is at all practical, as is shown by the following illustrations:

Eraser.

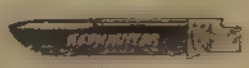
Saber.

Wharncliffe.

Clip.

Spear

Budding.



Spey

Pruning.

Sheep Foot.

Razor.

INFORMATION

REGARDING *KEEN KUTTER** POCKET KNIVES

(Continued).

COVERINGS ARE AS FOLLOWS:

SOLID GOLD, 14K. STERLING SILVER.

GERMAN SILVER—Producing an appearance quite similar to Sterling Silver

PEARL—Obtained through the London markets from the Dutch East Indies and Australian Fisheries, where the Highest Quality of Pearl is found.

GENUINE IVORY—Obtained from the elephants of the West Coast of Africa, where the Ivory is found to be much Superior in Quality—especially in hardness—to that of the Eastern Coast, and of Asia.

CUT STAG—Made by Artificially Cutting the Second Layer of Genuine Stag, or sometimes Bone, and carefully coloring until it so closely resembles Genuine Stag both in its irregular surface, and color, as to be difficult to distinguish from the real article.

WHITE BONE—The shin bone of beef cattle, which, when carefully selected and cured, gives a covering capable of High Finish and Good Wearing Qualities

ALUMINUM—Which is especially adapted for Engraving Fancy Decorations.

GENUINE STAG—Outside cut of the horn, obtained from Hungary, Bohemia, Ceylon and China, which countries produce the Highest Quality of Stag

TORTOISE SHELL—Obtained chiefly from the Hawk's Bill Tortoise, found in various parts of the world, especially in Asia and Australia

BUFFALO HORN—From the Buffaloes of Siam and India.

COCOBOLO—A hard, red wood of very fine grain, which grows chiefly on the Isthmus of Panama.

GENUINE EBONY—A hard, black wood of very fine grain, obtained chiefly from the East Coast of Africa and Madagascar.

CELLULOID—A manufactured composition; produced either Transparent or in a great Variety of Colors. It may be made in Imitation of almost any of the other coverings which are used on the Knives except German Silver.

LININGS—The Linings are of German Silver, Brass or Steel, whichever is best adapted to the particular Knife on which it is used. The outside edges are Milled (or Knurled), in several of the more expensive patterns.

BOLSTERS—The Bolsters are, in the great majority of cases, of German Silver, or in a few cases, on the heavier Knives, of Steel.

RIVETS—The Rivets are of German Silver and Steel

SHIELDS are made of German Silver, in various shapes and sizes, as best adapted to each individual pattern.

BACK SPRINGS are made of Forged Steel, Uniformly Tempered, Carefully Fitted and Full Polished, as specified in the descriptions; some of the patterns have Fancy Hand Engraved Backs.

CARE OF A KNIFE—Much trouble is caused and many Knives prove unsatisfactory from the lack of proper care.

A well made Pocket Knife is a piece of very fine mechanism, and should be kept cleaned and oiled at the joints as carefully as any other piece of fine mechanism. If this is done we are confident that every Pocket Knife bearing the *KEEN KUTTER* Brand will give the user complete and lasting satisfaction. If it does not, he is amply protected by the liberal guarantee which accompanies *KEEN KUTTER* Pocket Knives and all other *KEEN KUTTER* goods.

WE ABSOLUTELY GUARANTEE ALL *KEEN KUTTER* POCKET KNIVES AGAINST DEFECTS OF TEMPER OR FLAWS.

—1910—

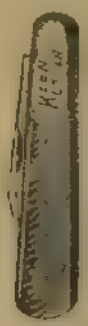
INFORMATION

REGARDING KEEN KUTTER* POCKET KNIVES

(Continued).

PATTERNS OF HANDLES—A great variety of shapes and designs of Handles are used in this line, the principal ones of which, with the names by which they are most commonly known, are given below:

Anglo Saxon


Barlow

Budding.

Corkscrew.

Ba[illegible]

Swell Center Jack.

Serpentine Pen.

Lobster

Congress.

Swell Center Jackknife.

Senator.

Shadow.

Equal End Cattle.

Vaquero.

Premium Stock.

Physician's.

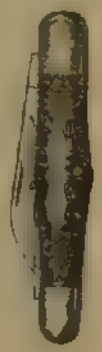
Wharncliffe.

INFORMATION

REGARDING KEEN KUTTER* POCKET KNIVES

(Continued).

PATTERNS OF HANDLES—A great variety of shapes and designs of Handles are used in this line, the principal ones of which, with the names by which they are most commonly known, are given below:


Balloon.

Easy Opener

Crown Jack

Equal End Jack.

Fish Jack.

Gun Stock. Jack.

Regular Jack.

Serpentine Jack

Sway Back Jack.

Swell Center Jack.

Swell End Jack.

Pruning

KEEN KUTTER Pocket Knives are all made in our own factory at Walden, N. Y., the largest pocket knife factory in the world. But while America thus leads in manufacturing the finished knives, the English produce the best steel for the blades. The *KEEN KUTTER* Pocket Knives are therefore, made in America, of English crucible steel

NUMERICAL LIST OF POCKET KNIVES

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K6WC	1936
K6WS	1936
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K8	1929
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K12½	1929

NUMERICAL LIST OF POCKET KNIVES

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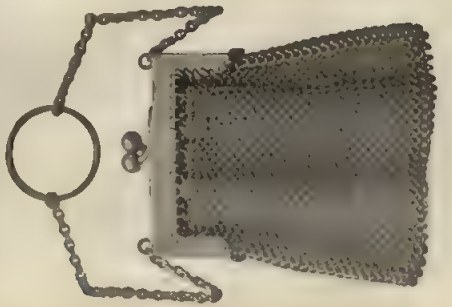
STERLING SILVER AND GERMAN SILVER SHIRRED HARMONICA OR DOUBLE MESH BAGS

All Links are Soldered and Made Very Strong. These Bags are Unlined.
PRICE EACH

No. 10618, 6-inch Sterling Silver Engraved Frame $12.00
No. 10619, 5-inch Sterling Silver Engraved Frame 10.00
No. 10620, 4-inch Sterling Silver Engraved Frame 8.00
No. 10621, 6-inch German Silver Engraved Frame 1.50
No. 10622, 5-inch German Silver Engraved Frame 1.25
No. 10623, 4-inch German Silver Engraved Frame 1.00



Coin Purse.
No. 10624, Small Mesh, Soldered Links, Sterling Silver, $10.00
No. 10625, Same as above in Engraved Frame, $12.00

OUR STOCK IS COMPLETE IN ALL SIZES AND STYLES

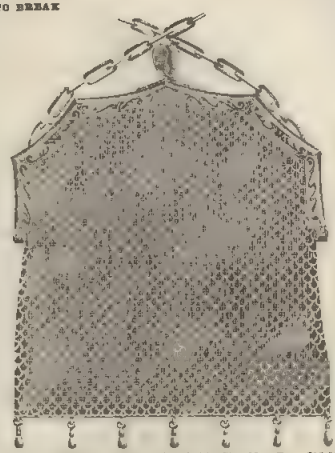
GERMAN SILVER UNBREAKABLE MESH BAGS

GUARANTEED NOT TO BREAK

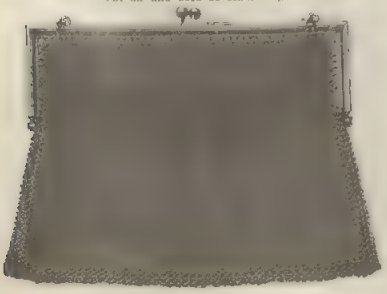
UNLINED

PRICE EACH

No. 10526, German Silver, Heavy Unbreakable ... $7.50
... 5¾ inches, Depth, 6 inches. Fancy Engraved ...
Frame. Polished. With 48-inch Chain. Chain can be
cut off and used as Hand Bag

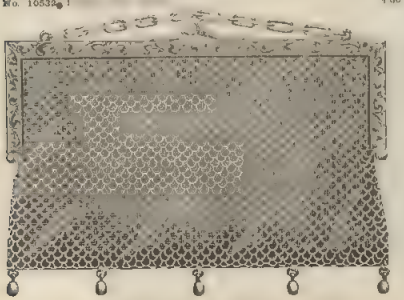


No. 10527, ... Silver, Unbreakable Shoulder Bag $12.00
... Five Cornered, Polished Frame with 4...
Chain can be cut off and used as Hand Bag.
Width of Bag 5 inches, Depth, 6 inches.



No. 10528, ... $10.00
No. 10529, ... 8.00
No. 10530, ... 6.50
No. 10531, ... 5.50
No. 10532, ... 4.00

No. 10533, ... $6.00
No. 10534, ... 5.00
No. 10535, ... 4.00



German Silver, Close Weave, Unbreakable Mesh
Fancy Engraved Frame. Polished

No. 10536, Frame, 7 inches $10.00
No. 10537, Frame, 6 inches 8.00

German Silver Heavy Unbreakable Mesh

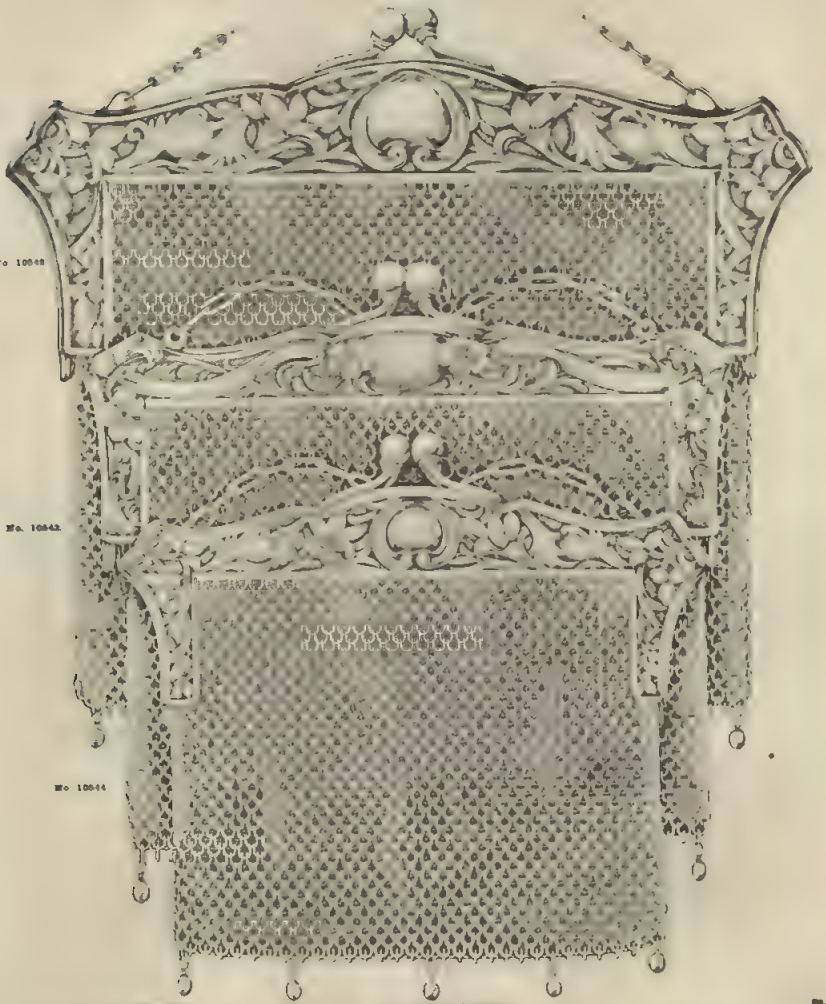
No. 10538, Frame, 7 inches long, 6½ inches $7.00
No. 10539, Frame, 7 inches long, 5⅞ inches 6.00
No. 10540, Frame, 6 inches; Depth, 5 inches 5.00
No. 10541, Frame, 5 inches, Depth, 4¾ inches 4.00
No. 0106413½, Frame, 4 inches; Depth, 3½ inches 3.00

GERMAN SILVER UNBREAKABLE MESH BAGS

The Finest and Most Durable Mesh Bag on the Market.

Guaranteed not to Break.

PEACH BACK

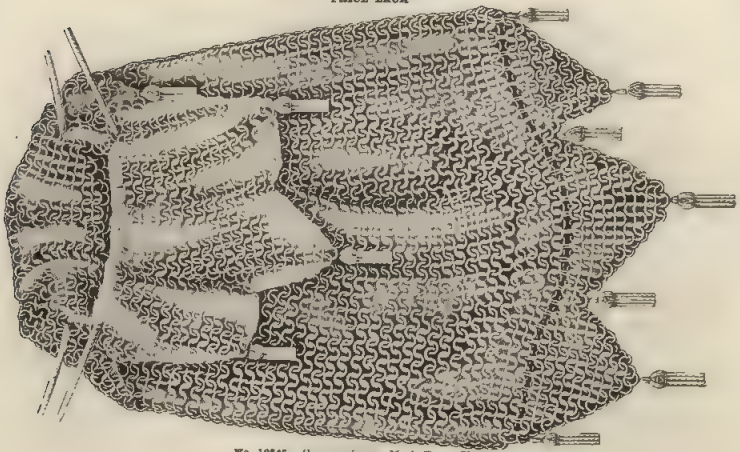


No. 10642, 7¾ inc ray Finished Top with Polished C 7.00
No. 10643, 6¾ inc ray Finished Top with Polished C 6.00
No. 10644, 5¾ inc ray Finished Top with Polished C 5.00

Above purses are made of unbreakable mesh, guaranteed not to come apart.

GERMAN SILVER MESH BAGS AND COIN PURSES

ALL UNLINED MESH BAGS
PRICE EACH

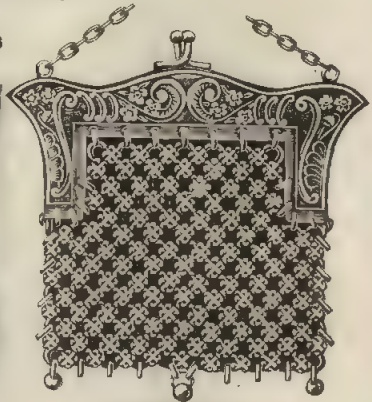


No. 10545. German Silver Mesh Bag **$11.00**
The Very Latest With Draw Chain.
Width when open 9 inches. Depth, 8½ inches
The Best Selling Bag on the Market Today

GERMAN SILVER COIN PURSES

No. 10546, $1.50
German Silver Coin Purse
No Lining. With Chain.

No. 10547, $1.75
German Silver Coin Purse
With Chain



No. 10548, $1.00
Plain Steel Mesh. Not Lined
Size of Frame 3½ inches
With Draw Chain

No. 10548, $1.00
German Silver Coin Purse
With long Chain to hang on Arm.
With Draw Cash. Not Lined
Width when open 3¼ inches
Depth 3 inches

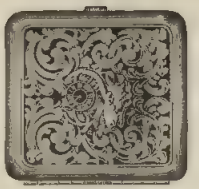
No. 10550, $1.00
German Silver Coin Purse
With Draw Chain and Fancy Top.
Not Lined
Width when open 3¼ inches
Depth 3 inches

No. 10551, $0.75
German Silver Coin Purse
With Draw Chain. Not Lined
Width when open, 2 inches.
Depth 2 inches.

FINE GERMAN SILVER CARD CASES, CIGARETTE CASES AND MESH BAGS

PRICE EACH

No. 10552, $1.50
German Silver Card Case
Gray Frost
Raised Ornamentation

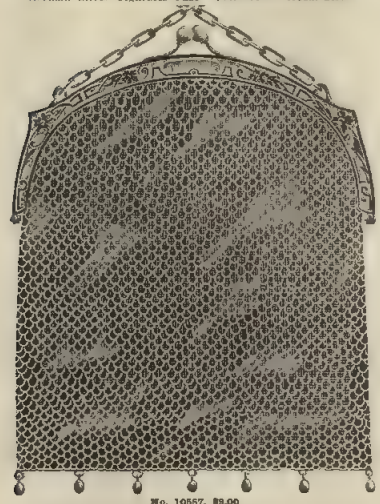


No. 10553, $1.50
Cigarette Case, Oxidized
German Silver. Regulation Size.
Holds Cigarettes on both sides.
Size, 3½ x 3¼.

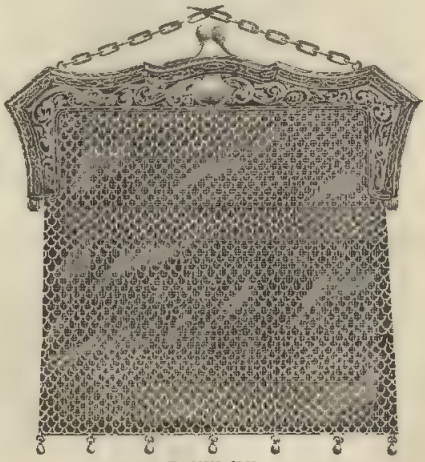
No. 10554, $1.50
Cigarette Case, Polished
German Silver. Regulation Size.
Holds Cigarettes on both sides.
Size 3½ x 3¼.

No. 10555, $5.50
German Silver Cigarette Case Polished Actual Size

No. 10559, $5.50
German Silver Cigarette Case Polished
Actual Size



No. 10557, $2.00
German Silver, Heavy Unbreakable Mesh. Width of Bag, 6½ inches, depth, 7 inches. Fancy Round Frame Shoulder Bag with 48-inch chain. Chain can be cut off and used as a hand bag instead of shoulder bag if desired.



No. 10558, $3.50
German Silver, Unbreakable Mesh Hand Bag
Handsomely Chased Frame.
Width, 7⅛ inches

GERMAN SILVER VANITY CARD CASES AND COMBINATION PURSE WITH CHAIN

PRICE EACH

No. 10569, $5.00
German Silver Vanity Card Case and Purse Combined with [illegible] Attached Chain. Leather Purse, Mirror and Memorandum and Pencil Inside.

No. 10570, $5.00
German Silver Vanity Card Case and Purse Combined with [illegible] Attached Chain. Polished Leather Purse, Mirror and Memorandum and Pencil Inside.

No. 10571, $6.75
German Silver Vanity Card Case and Coin Holder Combined. Mirror, Powder Puff, Nickel and Dime Holder, Pencil and Memorandum Inside.

No. 10572, $6.00
German Silver Vanity Card Case and Purse Combined with 12-in. Chain. Pearl Gray Lining. Leather Purse, Mirror, Pencil and Memorandum Inside.

No. 10573, $6.00
German Silver Vanity Card Case and Purse Combined with 12-in. Chain. Pearl Gray Lining. Leather Purse, Mirror, Pencil and Memorandum Inside.

No. 10574, $1.00
German Silver Puff Box
Oxidized
With [illegible] Chain

No. 10575, $2.00
German Silver Coin Purse
For Nickels, Dimes and Quarters. Dulled Engraved
With Chain

No. 10576, $1.50
German Silver Coin Purse
For Nickels and Dimes.
Polished, Engraved
With Chain.

RUBBER HORSE SHOE PADS

VULCAN

High Grade Rubber, Canvas Back

Nos.	1	2	2½	3	3½	4	4½
Per Pair	$1.20	1.20	1.20	1 20	1 30	1 30	1 40

PERRY

Best Wearing Rubber, White Oak Leather Back

Nos	1	2	2½	3	3½	4	4½	5
Per Pair.	$1 60	1 60	1 60	1 60	1 60	1 60	1 70	1 80

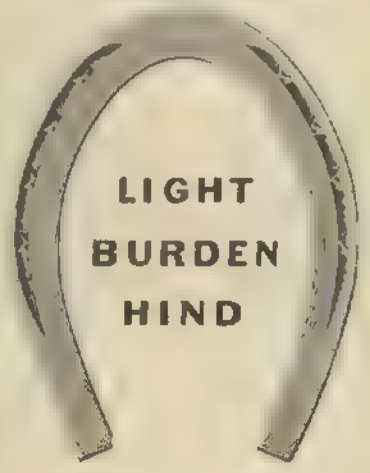
ANVIL

Full Front, Best Quality Rubber, Leather Back

Nos	1	2	2½	3	3½	4	4½	5
Per Pair	$1 80	1 80	1 80	1 80	1 80	1 80	2 00	2 20

HORSE SHOES

BURDEN'S IRON



Light, Front

Nos.	1	2	3	4	5	6	7
Weight Each, Oz	11	17	20	24	29	35	43
Shoes in a Keg	115	94	89	67	55	46	38

Per Keg, No. 2 and Larger.....Base, $.....
Per Keg, No. 1 .....Advance, .25

Light, Hind

Nos.	0	1	2	3	4	5	6	7
Weight Each Oz	10	12	15	18	22	26	30	35
Shoes in a Keg.	160	133	107	89	73	62	54	45

Per Keg, No. 2 and Larger.....Base, $.....
Per Keg, No. 1 and Smaller.....Advance, .25

Packed Fronts Only, Hinds Only, or Mixed Fronts and Hinds

BURDEN'S EASY HIND

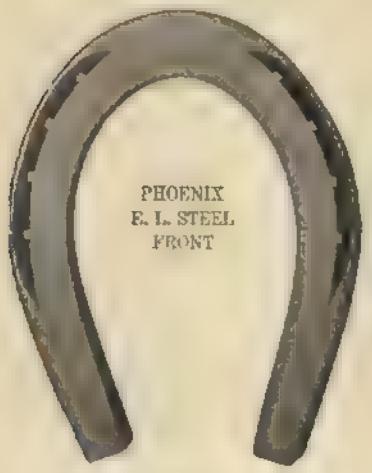
Nos.	1	2	3
Weight Each Oz	11	1[illegible]	16
Number of Shoes in a Keg	$1 60	1 33	1.07

Per Keg, No. 2 and Larger, ... Base, $.
Per Keg No 1 . . . . . Advance .25

All Above, Assorted Kegs of More than One Size 15 Cents Net Advance Per Keg (100 Pounds

HORSE SHOES

PHOENIX, E. L. STEEL



Front

Nos.	0	1	2	3	4	5	6	7
Wt Each, Oz.	11	13½	16½	19	22½	25½	31½	37½
Shoes in Keg.	145	118	97	84	71	63	50	42

Per Keg, No. 2 and Larger .....Base, $.....
Per Keg, No 1 and Smaller .....Advance, .25

Hind

Nos.	0	1	2	3	4	5	6	7
Wt Each, Oz.	9	10½	13½	16½	19½	23½	28	35
Shoes in Keg.	177	152	118	97	82	68	57	46

Per Keg, No. 2 and Larger .....Base, $...
Per Keg, No. 1 and Smaller .....Advance, 25

Packed Fronts Only, Hinds Only, or Mixed Fronts and Hinds

For Assorted Kegs of More than One Size, 15 Cents Net Advance Per Keg of 100 Pounds

PHOENIX, E. E. L. STEEL

Hind

Nos.	0	1	2	3
Weight Each, Oz.	8	9	10	12
No. Shoes in a Keg.	200	177	160	133

Per Keg, No. 2 and Larger .....Advance, $1.25
Per Keg, No 1 and Smaller .....Advance, 1 50
For Assorted Kegs of More than One Size, 15 Cents Net Advance Per Keg of 100 Pounds

"BOSS" TOE WEIGHT

Light Pattern, Drop Forged, Countersunk Nail Holes, Etc.

Nos.	1	2	3
Weight Each, Oz.	11	14	16½
No Shoes in Keg.	145	114	96

Per Keg, No. 1 .....Advance, $0.25
Per Keg No 2 and Larger. Advance, ...

All Above, 100 Pounds in a Keg

HORSE SHOES

PHOENIX LIGHT IRON

Front

Nos.	0	1	2	3	4	5	6	7
Weight Each, Oz.	12	14½	18	22	25	31	37	43½
No. Shoes in Keg.	133	110	89	73	64	51	43	36

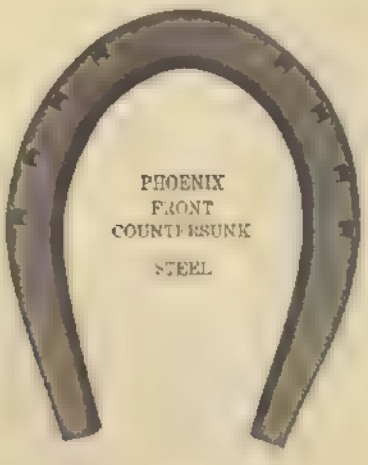
Per Keg, No. 2 and Larger .....Advance, $0.25
Per Keg, No. 1 and Smaller .....Advance, .50

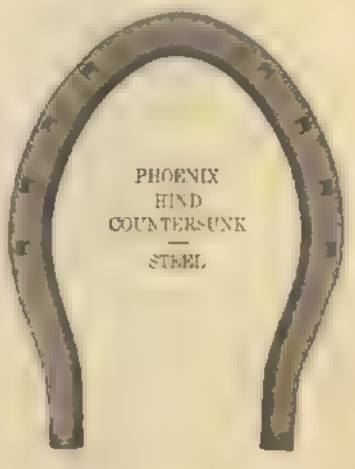
Hind

Nos.	0	1	2	3	4	5	6	7
Weight Each, Oz.	10	12	15	18	23	27	2[illegible]	35
No. Shoes in Keg.	160	133	106	89	70	59	48	46

Per Keg, No 2 and Larger .....Advance, $0.25
Per Keg, No 1 and Smaller .....Advance, .50

PHOENIX COUNTERSUNK STEEL





Front

Nos.	1	2	3
Weight Each, Oz.	10	12	15
No. Shoes in a Keg	160	133	106

Per Keg, No 2 and Larger .....Advance, $1.50
Per Keg, No. 1 .....Advance, 1.75

Hind

Nos.	1	2	3
Weight Each, Oz.	8	9	11
No Shoes in a Keg	200	177	145

Per Keg, No. 2 and Larger.....Advance, $1.50
Per Keg, No 1 .....Advance, 1.75

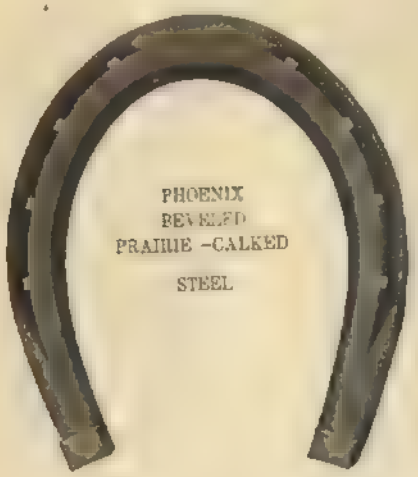
All Above, Packed Fronts Only, Hinds Only, or Mixed Fronts and Hinds

For Assorted Kegs of More than One Size, 15 Cents Net Advance Per Keg of 100 Pounds

All Above 100 Pounds in a Keg

HORSE SHOES

PHOENIX PRAIRIE CALKED, STEEL



Nos.	00	0	1	2	3
Weight Each, Oz	10	11	13	15	17
No. Shoes in a Keg	160	145	123	106	94

Per Keg, No. 2 and Larger ..... $ .....
Per Keg, No. 1 and Smaller .....

PHOENIX SOUTHERN, STEEL

Hind

Nos.	0	1	2	3	4
Weight Each, Oz	8½	10	12	15	19
No. Shoes in a Keg	190	160	132	105	84

Per Keg, No. 2 and Larger .....
Per Keg, No. 1 and Smaller .....

Packed Fronts Only, Hinds Only, or Mixed Fronts and Hinds

For Assorted Kegs of More than One Size, 15 Cents Net Advance Per Keg of 100 Pounds

MULE SHOES

PHOENIX STEEL

Nos.	1	2	3	4	5
Weight Each, Oz.	11½	14½	18	22	27
No. Shoes in Keg.	139	110	89	73	59

Per Keg, No. 2 and Larger ..... $ .....
Per Keg, No. 1 .....

BURDEN IRON

Nos.	0	1	2	3	4	5
Weight Each, Oz.	9	10	13	16	19	25
No. Shoes in a Keg.	178	160	124	100	84	64

Per Keg, No. 2 and Larger ..... $ .....
Per Keg, No. 1 and Smaller .....

All Above, 100 Pounds in a Keg

HORSE SHOE NAILS

Cuts Full Size

CAPEWELL

Best Swedish Iron, Never Break Under Heads, Never Crimp in the Hardest Hoof, Flexible to Clinch, Never Split in Driving, Perfect in Form and Finish.

City Head

Nos.	5	6	7	8
Per Pound	$0.22	.19	.18	.17
	.36	.32	.30	.28

Plate Pattern Head

Nos.	3	4	4½	5	6	7	8
Per Pound	$0.75	.35	.30	.32	.19	.18	.17
	1.30	.60	.48	.36	.32	.20	.28

Five Pounds in a Paper Box; Twenty-five Pounds in a Wooden Box

AU SABLE

Regular Head

Made of Open Hearth Steel, Hot Forged, Cold Point, the Most Perfect Horse Nail in Form and Finish, Will Hold Shoe Longer than any Other Nail Made.

Nos.	5	6	7	8
Per Pound	$0 30	.28	.26	.24

UNION

City Head

Made of Best Norway Iron, Never Break Under Heads, Never Crimp in the Hardest Hoof, Flexible to Clinch, Never Split in Driving, Perfect in Form and Finish.

Nos.	5	6	7
Per Pound	$0.26	.23	.21
	.24	.24	.24

LEADER

Made of Best Norway Iron; a Very Good Nail at a Low Price

City Head

Nos.	5	6	7	8	9
Per Pound	$0.20	.20	20	20	20
	.20	20	.20	20	20

Regular Head

Nos.	5	6	7	8	9
Per Pound	$0.20	.20	20	20	20
	.20	.20	20	20	20

Five Pounds in a Paper Box; Twenty-Five Pounds in a Wooden Box

HUEY & PHILP HARDWARE COMPANY.

TOE CALKS

PHOENIX

Blunt Pattern

	Medium		Long	
Nos.	2	3	4	5
Length, Inches	2 1/4	2 1/2	3	3 1/4
Width, Inches			5/8	
Thickness, Inches	3/8	3/8	7/16	7/16

Per Pound

All Sizes $0.14

Sharp Pattern

	Medium		Long	
Nos.	2	3	4	5
Length, Inches	2 1/4	2 1/2	2 3/4	3
Width, Inches	5/8	3/4	3/4	7/8
Thickness at Top, Inches	3/8	7/16	1/2	

Per Pound

All Sizes $0.15

STANDARD

Long Blunt Pattern

Nos.	2	3	4	5
Length, Inches	2	2 1/4	2 1/2	2 3/4
Width, Inches	7/8	7/8	7/8	7/8
Thickness at Top, Inches	3/8	3/8	7/16	1/2

Per Pound

All Sizes $0.14

BORAX

Per Pound

Borax—In Barrels of About 600 Pounds..... $0.12

Borax—In Sacks of About 100 Pounds..... .14

Borax—Open Stock ..... .16

WELDING COMPOUNDS

CHERRY HEAT

Per Pound

Cherry Heat—In 5 Lb Boxes..... $0 20

CLIMAX

Per Pound

Climax—In 5 Lb Boxes..... $0.17

WELDARINE

For Brazing Cast Iron

Per Set

Weldarine—Large Set, Weight Per Set 4 Lbs. $7 00

A set consists of 1 can Weldarine, 1 can Weldarine Fluid, 1 can Weldarine Borax, 1 can Weldarine Spelter and 1 Steel Wire Brush Instructions sent with every set

LANDSIDE PLATES

Polished on One Side, 1/8 in. Thick

Size, Inches	12	14	16
No. 2—Solid Cast Steel.....Per Lb.,	$0.20	.20	.20
No. 3—Crucible Cast Steel...Per Lb.,	.22	.22	.22
No. 1—Soft Center Steel.....Per Lb.,	.34	.34	.34

No. 2 will be sent unless otherwise ordered

STEEL PLOW SHAPES

TEXAS HEEL SWEEPS

1/4 in. Thick

Size, Inches.	12x2 1/2	14x2 1/2	16x2 1/2	18x2 1/2	20x2 1/2
Per Pound .	$.....				
Size, Inches	22x2 1/2	24x2 1/2	26x2 1/2	28x2 1/2	30x2 1/2
Per Pound	$.....	.....	.....	.....	

THE unquestioned position of this company, and of its product in the world at large, is due to the energy, ability and life work of the late Thomas B. Jeffery.

To the end that his name may remain in the memories of men, we have named our new car the Jeffery. We believe it to be entirely worthy of the name we have given it.

The Thomas B. Jeffery Company

Charles T. Jeffery
President

Jeffery

A Remarkable Car at a Remarkable Price—$1550

High-Speed, Powerful, Mono-Bloc Motor—Four-Speed Transmission—Imported Annular Ball Bearings—Full-Floating Rear Axle—Short Turning Radius—Vibration Eliminated.

Light Weight and Economy Through These Features

From Nothing to Forty Miles an Hour In Twenty Seconds

The Jeffery Four is an absolutely new car, so modern and so superior that it can rub shoulders with the best cars the world produces, and profit by comparison. It is a strictly high-grade car, built in accordance with the latest European and American practice, but sold at an extremely low figure—$1550

One big motor-car dealer said when he saw it, "It can't be done. You can't build a car like that to sell for $1550—it's too good." We proved to him that it could be done by a manufacturer with the experience, capital and equipment. Three days later he wired us an order for eight hundred cars.

The astonishing story of this car is really the story of a great independent factory backed by forty years of manufacturing experience and five and one-half million dollars in assets.

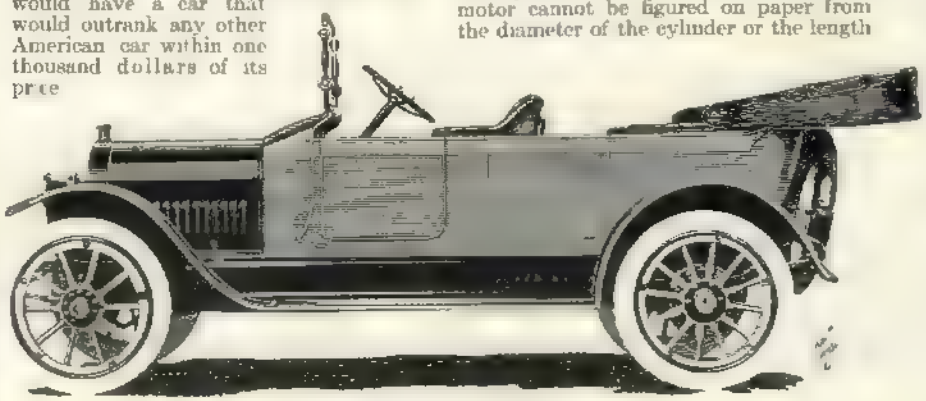
Two things we determined to give to this car without sacrificing a third. We knew that if we could accomplish these two things without losing the third, we would have a car that would outrank any other American car within one thousand dollars of its price.

We gave it light weight and light running qualities without sacrificing comfort. Think what these things mean—less fuel consumption, less vibration, less repairs, less tire expense and real pleasure for the owner.

We began with the motor. Jeffery engineers took to pieces every successful European and American motor before deciding upon this high-speed, mono-bloc design. From all these we took the best features, combined them with our own ideas and the result is a remarkable motor—powerful, light and economical.

This high-speed, mono-bloc motor is compact and simple. It develops, at 2200 revolutions per minute, forty horse power. The cylinders, 3¾ inch bore and 5¼ inch stroke, are cast en bloc in one remarkable solid casting, together with the valve seats and water jackets. This makes it strong, without vibration and easy to cool.

It can travel forty miles per hour on second speed, and you will be surprised how quietly it runs. The power of this motor cannot be figured on paper from the diameter of the cylinder or the length



The Jeffery Four, $1550

of the piston stroke. It takes motor speed to make power and, when delivered to the rear axle through mechanism which is almost entirely free from friction, the result is wonderful.

The reciprocating parts of the motor are made as light as possible, consistent with strength. The pistons, together with the wrist pins and piston rings, weigh but three pounds each. Usually pistons weigh from four and one-half to seven pounds each.

This motor gets away with snap and go—the kind you like to feel. Touch the throttle and in seven seconds you are making twenty miles an hour, in twenty seconds forty miles an hour—fifty miles per hour in fifty-five seconds.

The oiling system is the latest. It is a combination of the internal force feed and constant-level splash systems. A reservoir under the crank case contains the supply of oil.

Direct front view of Jeffery Four

The oil pressure gauge on the dash, or the indicators on the crank case, will tell you instantly what is going on.

The electric starting and lighting system is the U. S. L. All manufacturers know that this is the most expensive made and is protected by exclusive patents. We know by experience that it is the best. Another car selling for $3250 charges $200 extra for this equipment. The Jeffery car could be sold for $100 less if equipped in any other way.

Not a gear, cam, chain or bearing is used in this starter's construction—that's what makes it so quiet. None of that grinding noise you notice in the common starter.

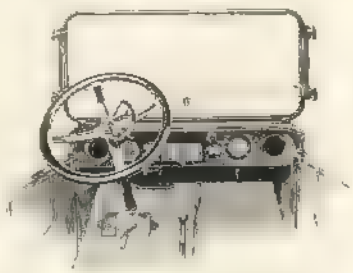
Not a single car in America selling under two thousand dollars, except the Jeffery Four, is equipped with the U. S. L.

An English motor car manufacturer, investigating starters in this country, said in *The Autocar*, the leading English motoring publication, that in two years the gear-driven starter would be obsolete.

The clutch is a perfected cone, leather-faced, with spring inserts.

Every mechanic knows the effectiveness and simplicity of this type.

Between the clutch and the four-speed transmission there is a feature absolutely new to American cars—the famous Daimler flexible leather coupling. Daimler introduced it first in his large omnibuses in use throughout Europe. We tested it for thousands of miles before adopting it on the Jeffery car.



Forward dash of the Jeffery Four
All attachments set in

The transmission, with four speeds forward and one reverse, weighs less than one hundred pounds. It's the last word in flexibility of control and ease of operation.

The transmission case is solidly bolted to two cross members of the frame and located amidships, providing center control and left-hand steer, thus conforming to that greatest influence—public opinion.

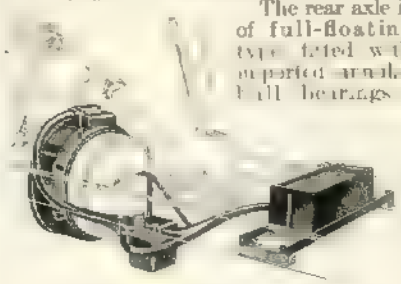
Rear of Jeffery Four. Pressure Gasoline Tank rigidly attached to extended frame members

Jeffery

The transmission shafts are of vanadium steel hung in five imported annular ball bearings. We are proud of our transmission gears. We make them ourselves and the fifty-two tooth bevel gear is, beyond question, the most correctly cut gear in America today

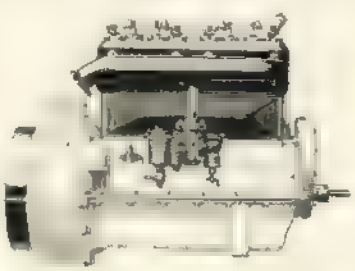
Ask any mechanic about Spicer universal joints. Two of these are located between the transmission and the rear axle. The drive shaft is many times stronger than the heaviest strain you could ever place upon it. Made of the finest chrome-nickel steel, heat-treated, it is the most expensive we can buy. These joints are fully housed, light, well lubricated and durable.

The rear axle is of full-floating type, fitted with imported annular ball bearings



U. S. L. starting and lighting system directly connected. No chains, gears or belts

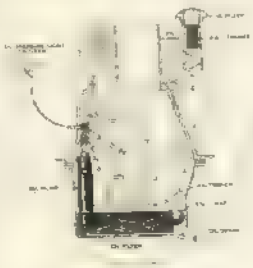
the same quality axle as those used on all highest priced electric vehicles. Few American-built gasoline cars have been able to adopt them on account of their cost. Consider, if you can, the friction-less passage of power from the high-speed, well-balanced motor through the leather coupling, into the four-speed transmission, rolling smoothly on imported annular ball bearings, and back through the Spicer universal joints to this remarkable axle.



Jeffery Four chassis with one motor

What is the result? You can speed up this car to forty miles per hour, shut off the motor and coast half a mile. The mere pressure of forty-five pounds will start it rolling on the floor. Not a ball bearing in it that has not been submitted to at least three engineers for an opinion as to size. Light running — of course — economy again, you see.

There are two brakes—a service, and an emergency brake, each of internal expanding type. This eliminates rattling, unnecessary parts, and keeps them free from dust, grit and mud



Jeffery oiling system

Owing to compactness, we have been able to reduce the wheel base to 116 inches yet we have retained the comfortable lines of the body, cutting out weight and again reducing upkeep.

For this wheel base we have provided 34x4 inch wheels, equipped with demountable rims. Short turning space is provided. The Jeffery Four will turn in a forty-two foot circle

The springs are of vanadium steel, two inches wide and fifty inches long, semi-elliptic, heat-treated. We use vanadium steel because of its longer life and greater elasticity

The front axle of vanadium steel is a marvel of lightness and strength. It weighs but twenty-nine pounds, but it took thirty-two thousand pounds to twist it in our torsion test machine. The radiator holds five and one-half gallons of water and has over ten thousand square inches of cooling surface. Circulation is by centrifugal pump.

Rothschild designed the body. It's an improvement on the Lancia—that beautiful Italian car. It is Brewster green in color

If we did not have a press of fifteen hundred tons capacity we could not manufacture this body and put it on a car at $2,850. Sixteen dies were used in making the body panels and the die for the cowl took three months to build

Jeffery Four brake [illegible]

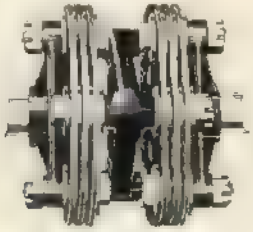
The upholstery is of the finest leather and hair. The doors are extremely wide, 23½ inches. The dash is replete with all modern attachments

Four speed transmission and levers

The hinges on the door are of the patented invisible type. The back of the front seat is finished in the finest leather.

A pressure-feed gasoline tank with gauge carried behind, and with pump operated from the cam shaft, insures an even flow up hill or down. An auxiliary pressure pump is located on the dash, both for oil and air emergency

The electric light switch attachment is the most clever arrangement of its kind



Jeffery leather universal

yet devised. The lights can be dimmed at any time for city driving.

The equipment includes top of finest material, rain-vision wind shield, Stewart-Warner speedometer, ammeter, extra demountable rim with brackets, electrically lighted dash, Klaxet horn, Solar electric lamps and complete tool equipment. Power tire pump, $25 extra

The Jeffery Six

The Jeffery Six is a duplicate of the wonderful Jeffery Four, except for size, and the fact that the cylinders are cast in pairs

This car, which sells at $2250, has all the best features of all the best cars. We built it for the man who demands Jeffery quality in a six

It is light—actual scale weight 3700 pounds—with full equipment. We made it luxurious without making it extravagant.

It is a beautiful car and a delight to drive. It is smooth, flexible and responsive. We know that a better Six cannot be built for the simple reason that parts of better quality have yet to be produced.

High Grade Features of Jeffery Six

Four-cylinder [illegible] power motor, cylinders cast in pairs, [illegible]

Extra large [illegible]

Bosch Duplex [illegible]

Rayfield carburetor

Imported annular ball bearings throughout

Four forward speed transmission

Warner auto meter.

[illegible] starting and lighting system

Power tire pump

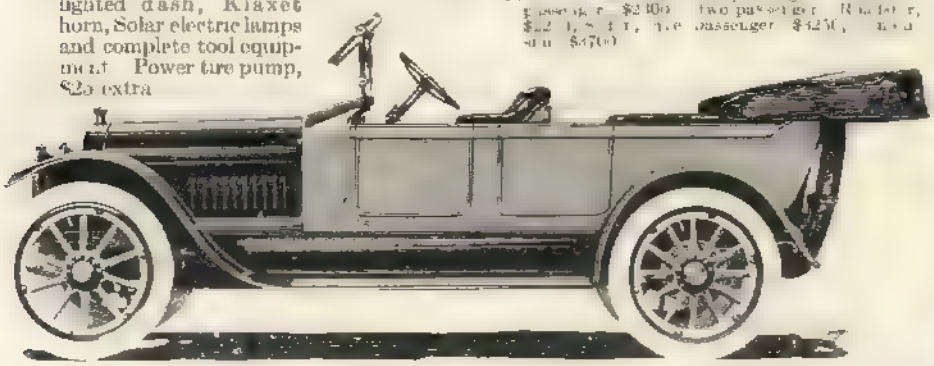
Wheels and tires 36 x 4½ [illegible] tires. Wheel base 128 inches. [illegible]

[illegible] with extra wide doors and low [illegible]

Pressure feed gasoline tank with gauge

[illegible]

Prices of Jeffery Six: Five passenger $2250; six passenger $2300; two passenger Roadster, $2250; Sport, five passenger $2250, [illegible] $4700



The Jeffery Six $2250

Jeffery

Fifteen Jeffery Four Features

High-speed mono-block motor, European type. From nothing to forty miles an hour in twenty seconds—high grade.

U. S. L. starting, lighting system—high grade. The car complete with this system for $1650 is not equipped in any other way.

Imported annular ball bearings throughout—high grade. Standard on the world's best cars.

Spicer universal joints—high grade. Ask any mechanic.

Combination force feed and splash oiling system—high grade. The most economical method known.

Four forward speed transmission—high grade. Control levers directly over transmission.

Full-floating type rear axle—imported annular ball bearings—high grade. Same quality as that used on all highest priced electric vehicles.

Body designed by Rothschild of New York—high grade. The hit of the Paris show.

Leather universal between clutch and transmission—high grade.

Vanadium steel springs and front axle—high grade.

Rayfield carburetor—high grade.

Left drive and center control—high grade.

Pressure-feed gasoline tank in rear, and pump operated through cam shaft—high grade.

Bosch Duplex ignition—high grade.

Solar Lamps—high grade. Operated by four-position switch—the simplest ever made.

Prices of Jeffery Four

Body style [illegible] passenger touring $1[illegible]. Two passenger roadster $1[illegible]. Two passenger Coupe, enclosed drive, $[illegible]. Four passenger Sedan, enclosed drive, $[illegible]. Four passenger limousine, $3000.

Dealers have already ordered over fifty per cent of our output.

Five and one-half million dollars in assets, with the highest credit in the industry, and a factory equipped with three million dollars worth of the latest machinery, and manned by a loyal body of workmen, are the things that made the Jeffery Four and Six possible.

Few manufacturers in the industry can produce a car like the Jeffery Four to sell for $1550 and make a cent of profit—except Jeffery.

True, the margin will be small, but the sales will be enormous and the quantity production large. We will be satisfied with the profit, because the owner will be satisfied with his car.

Although this is the first public announcement of the Jeffery Four and Six, dealers have already ordered more than fifty per cent of our output for the coming year. One dealer, recognized as the leader in his section of the country, when he heard of the new cars, traveled fifteen hundred miles to ask for the right to sell them.

Big dealers in big cities all over the country are dropping other lines or organizing new companies to take on the Jeffery line. They were quick to recognize in this car a wonderful opportunity. They know that only a concern with the capital, equipment and experience of the Jeffery Company can produce such a car at such a price.

Deliveries have already begun and the output is increasing daily. The orders for immediate delivery have reached a high figure, but the factory can handle the demand.

Successful dealers want to become associated with a financially strong and successful organization.

Wire or write immediately for territorial reservations.

The Thomas B. Jeffery Company

Kenosha, Wisconsin

1913
POCKET KNIVES.

"KEEN KUTTER"

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE

FOUR BLADES, 1 Large Spear Point, 1 Pen, 1 Nail Scissor and 1 Nail File, Full Polished, German Silver Shield, Full Milled, Brass Lining.

Per Dozen

No. K5843—3 IN. PEARL HANDLE $65.00

No. K0843—3¼ IN. PEARL HANDLE 71.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Shield; Full Milled; Brass Lining.

No. K4848—3¾ IN. PEARL HANDLE ..... Per Dozen, $58.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished, German Silver Shield; Milled, Brass Lining.

No. K417—3¼ IN. PEARL HANDLE ..... Per Dozen, $57.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Shield; Milled; Brass Lining; Solid German Silver Back.

No. K422—3¼ IN. PEARL HANDLE ..... Per Dozen, $53.00

Put up in Individual Boxes.

THREE BLADES, 1 Pen, 1 Nail Scissor and 1 Nail File, Full Polished, Full Milled, Brass Lining.

No. K5443—3⅜ IN. PEARL HANDLE ..... Per Dozen, $50.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Shield; Milled; Brass Lining; Solid German Silver Back.

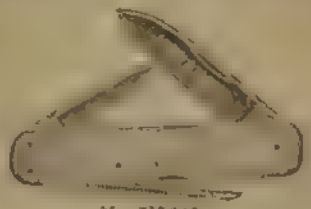
No. K407—3¼ IN. PEARL HANDLE ..... Per Dozen, $48.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Shield; Full Milled; Brass Lining.

No. K337—3¼ IN. PEARL HANDLE ..... Per Dozen, $45.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished; Full Milled; Brass Lining.

No. K0443—3¼ IN. PEARL HANDLE ..... Per Dozen, $45.00



No. K5243

Full Polished, Full Milled, Brass Lining.

Per Dozen

No. K5243—3¼ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File $43.00

No. K4243—3¼ IN. PEARL HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 Nail File 48.00

No. K5031.

SOLID STEEL BLADES, 1 Sheep Foot, 1 Pen, 1 Nail File, Full Polished, German Silver Shield, Full Milled Lining.

Per Dozen

No. K5037—3 IN. PEARL HANDLE, GERMAN SILVER LINING $30.00

No. K3037—3 IN. PEARL HANDLE, GERMAN SILVER TIPS AND LINING 39.00

No. K0843—3¼ IN. PEARL HANDLE, BRASS LINING 39.00

FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 Nail File, Full Polished; German Silver Shield and Lining.

No. K4037—3 IN. PEARL HANDLE ..... Per Dozen, $43.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Nickel Plated Cork Screw at End of Handle; German Silver Bolsters and Shield; Brass Lining.

No. K3453—3¼ IN. PEARL HANDLE ..... Per Dozen, $41.00

No. K4429

FOUR BLADES, 1 Large Clip, 1 Large Sheep Foot, 1 Large Spey Point and 1 Pen, Full Polished, German Silver Bolsters, Shield and Lining, Milled Back.

Per Dozen

No. K4429—4 IN. PEARL HANDLE $41.00

No. K4429E—4 IN. PEARL HANDLE, Engraved Back 43.00

THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey Point, Half Polished; German Silver Bolster and Shield.

Per Dozen

No. K3434—3⅞ IN. PEARL HANDLE, GERMAN SILVER LINING $38.00

No. K3429—4 IN. PEARL HANDLE, BRASS LINING 41.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 1½ lbs.

— 1914 —

POCKET KNIVES.

"KEEN KUTTER."

Highest Grade English Crucible Steel Blades, Carefully Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

OFFICE KNIFE

TWO LARGE BLADES, 1 Spear and 1 Eraser Point, Half Polished; Brass Lining.

No. K02223—3¾ IN. PEARL HANDLE .....Per Dozen, $39.00

No. K4063.

FOUR BLADES, 1 Large Spear Point, 3 Pens and 1 File, Full Polished; German Silver Shield; Brass Lining.

Per Dozen

No. K4063—3¼ IN. PEARL HANDLE, MILLED BACK. $37.00

No. K4063E—3¼ IN. PEARL HANDLE, ENGRAVED BACK.... 40.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Full Milled; German Silver Lining.

No. K3158—3 IN. PEARL HANDLE .....Per Dozen, $39.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished; Full Milled Brass Lining.

No. K5638—3⅛ IN. PEARL HANDLE .....Per Dozen, $39.00

No. K3463.

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Shield; Brass Lining.

Per Dozen

No. K3463—3¼ IN. PEARL HANDLE, MILLED BACK.....$36.00

No. K3463E—3¼ IN. PEARL HANDLE; ENGRAVED BACK.... 39.00

No. K3082.

Full Polished Blades; German Silver Tips and Shield; Brass Lining. Milled Back.

Per Dozen

No. K3082—3½ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File $37.00

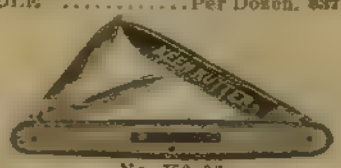
No. K4082—3½ IN. PEARL HANDLE, FOUR BLADES, 1 Large Spear Point, 1 Pen and 1 File 38.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Shield; Brass Lining; Milled Back.

No. K3833—3¾ IN. PEARL HANDLE .....Per Dozen, $37.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished; German Silver Shield and Ring; Full Milled Brass Lining.

No. K3643—3¾ IN. PEARL HANDLE .....Per Dozen, $37.00



No. K3203.

Full Polished Blades; German Silver Shield; Brass Lining; Milled Back.

Per Dozen

No. K3803—3¾ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point and 2 Pen $37.00

No. K4308—3⅛ IN. PEARL HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File 35.00

No. K393.

Full Polished Blades; German Silver Shield; Brass Lining, Milled Back.

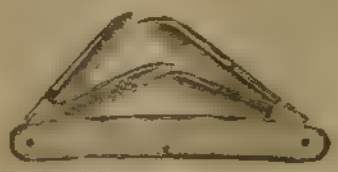
Per Dozen

No. K393—3¼ IN. PEARL HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File; GERMAN SILVER BOLSTER $34.00

No. K3083—3¼ IN. PEARL HANDLE; THREE BLADES, 1 Large Spear Point and 2 Pen; WITHOUT BOLSTER 27.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Shield; Full Milled Brass Lining.

No. K90103—3 IN. PEARL HANDLE .....Per Dozen, $36.00



FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished; German Silver Lining; Milled Back.

No. K3829—3⅝ IN. PEARL HANDLE ....Per Dozen, $36.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Shield; Brass Lining; Milled Back.

No. K3062—3¼ IN. PEARL HANDLE ....Per Dozen, $35.00

No. K3263.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot Point and 1 Pen, Half Polished; German Silver Bolster and Shield, Milled Back.

No. K3263—3⅝ IN. PEARL HANDLE .....Per Dozen, $35.00

THREE LARGE BLADES, 1 Spear, 1 Clip and 1 Spey Point, Half Polished; German Silver Bolsters and Shield; Brass Lining; Milled Back.

No. K3379—3⅝ IN. PEARL HANDLE .....Per Dozen, $35.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Brass Lining; Milled Back.

No. K3413—3 1/16 IN. PEARL HANDLE .....Per Dozen, $35.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs.

1915

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Bolsters and Shield, Brass Lining; Milled Back

No. K392—3⅝ IN. PEARL HANDLE ..... Per Dozen, $33.00

THREE BLADES, 2 [illegible] Clip Point and 1 Pen, Full Polished; German Silver Bolsters and Shield; Brass Lining; Milled Back.

No. K3313—3⅝ IN. PEARL HANDLE ..... Per Dozen, $32.00

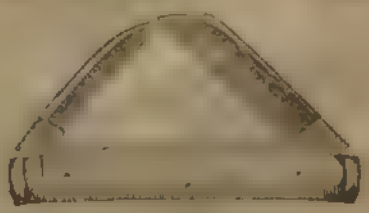
No. K1923

German Silver Tips and Shield, Brass Lining; Milled Back.

Per Dozen

No. K1923—3 IN. PEARL HANDLE; [illegible] Blades, 1 Large Spear Point, 1 Pen and 1 File; Half Polished $32.00

No. K3921—3 IN. PEARL HANDLE; Four Blades, 1 Large Spear Point, 1 [illegible] and File. Half Polished $28.00



Two Blades, 1 Large Sheep Foot and 1 Pen, Half Polished; Polished Steel Holsters; Brass Lining

Per Dozen

No. K0378—3¾ IN. PEARL HANDLE $35.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished, German Silver Shield; Brass Lining; Milled Back.

No. K3808—3⅝ IN. PEARL HANDLE ..... Per Dozen, $35.00

No. K3733.

Full Polished Blades, German Silver Bolsters and Shield; Brass Lining; Milled Back.

Per Dozen

No. K3721—3¾ IN. PEARL HANDLE; THREE LARGE BLADES, 1 Large Spear Point, 1 Sheep Foot and 1 Pen Point $30.00

No. K3723—3¾ IN. PEARL HANDLE; THREE BLADES, 1 Clip, 1 Pen, 1 Sheep Foot Point and 1 Pen $12.00

[illegible]

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished.

Per Dozen

No. K420—3⅝ IN. PEARL HANDLE; GERMAN SILVER BOLSTERS AND SHIELD; BRASS LINING; MILLED BACK.... $29.00

No. K4970—3¼ IN. PEARL HANDLE; STEEL BOLSTERS AND LINING $30.00

No. K3670—3¼ IN. PEARL HANDLE; BRASS LINING, WITHOUT BOLSTERS; MILLED BACK $32.00

[illegible]

German Silver Tips and Shield, Brass Lining; Milled Back.

Per Dozen

No. K343—3¾ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished $31.00

No. K443—3¾ IN. PEARL HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens, and 1 File, Full Polished $34.00

No. K02339.

Half Polished Blades, German Silver Tips and Shield.

Per Dozen

No. K02339—3¾ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen; Brass Lining $28.00

No. K32339—3¾ IN. PEARL HANDLE, THREE BLADES, 1 large Spear Point 1 Pen and 1 File, Brass Lining $30.00

No. K3483

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Milled Back.

Per Dozen

No. K3489—3¾ IN. PEARL HANDLE; Hand Engraved Aluminum Bolsters; German Silver Lining $30.00

No. K3488—3¾ IN. PEARL HANDLE; German Silver Bolsters; Brass Lining $27.00

THREE BLADES, 1 Large Clip, 1 Small Clip and 1 Pen, Half Polished

Per Dozen

No. K3488¾—3¼ IN. PEARL HANDLE; German Silver Bolsters; Brass Lining $29.00

No. K3413.

Full Polished Blades; German Silver Tips; Brass Lining.

Per Dozen

No. K3113—3 IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File; Milled Back $30.00

No. K4408—3 IN. PEARL HANDLE, FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File..... $29.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished, German Silver Bolster, Cap and Shield; Brass Lining

No. K2740—3¾ IN. PEARL HANDLE ..... Per Dozen, $29.00

No. K0233.

Full Polished Blades; Brass Lining.

Per Dozen

No. K0233—3¾ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen..... $32.00

No. K3033—3¾ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Milled Back $29.00

One half Dozen in a Cardboard Box. Weight per Dozen about 1½ lbs

—1916—

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Bolsters; Brass Lining; Milled Back.

No. K4138—3 IN. PEARL HANDLE; Per Dozen $28.00

No. K0382

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Shield; Brass Lining

Per Dozen

No. K0382—3½ IN. PEARL HANDLE; $28.00

No. K0238—3¼ IN. PEARL HANDLE, Milled Back..... 20.00

No. K0488.

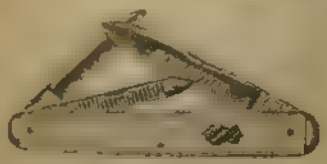
Full Polished Blades; German Silver Tips; Brass Lining; Milled Back

Per Dozen

No. K0488—3 IN. PEARL HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... $18.00

No. K3008—2⅞ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File; GERMAN SILVER SHIELD 28.00

No. K4808—2⅞ IN. PEARL HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File; GERMAN SILVER SHIELD 28.00



THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished; German Silver Tips and Shield; Brass Lining; Milled Back

No. K3483—3¼ IN. PEARL HANDLE; Per Dozen, $28.00

FOUR BLADES, 1 Large Spear Point, 2 Pen and 1 File, Full Polished; German Silver Tips and Shield; Brass Lining.

No. K4840—3 IN. PEARL HANDLE; Per Dozen $28.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; German Silver Tips and Full Milled Lining

No. K0153—3 IN. PEARL HANDLE; Per Dozen .....

THREE BLADES, 1 Large Spear Point and 1 Pen, Full Polished, Brass Lining; Milled Back.

No. K3913—3⅛ IN. PEARL HANDLE .....Per Dozen, $28.00

No. K3263

Full Polished Blades; German Silver Bolsters; Brass Lining, Milled Back.

Per Dozen

No. K3263—3½ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen, 1 File....$27.00

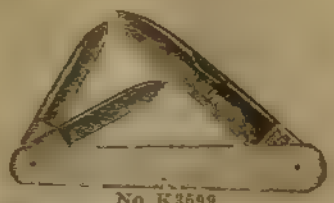
No. K4263—3½ IN. PEARL HANDLE; FOUR BLADES; 1 Large Spear Point, 2 Pens, 1 File... 28.00

THREE BLADES, 1 Large Spear Point and 3 Pen, Half Polished; German Silver Bolsters and Shield; Brass Lining.

No. K317—3⅜ IN. PEARL HANDLE .....Per Dozen, $28.00

TWO BLADES, 1 Large Spear Point and 1 Pen; German Silver Bolster, Cap and Shield; Brass Lining.

No. K1203—3½ IN. PEARL HANDLE.....Per Dozen, $28.00



No. K3599.

THREE BLADES, 1 Large Spear Point and 2 Pen, Half Polished, Brass Lining.

Per Dozen

No. K3599—3⅜ IN. PEARL HANDLE; Milled Back.....$28.00

No. K3599T—3⅜ IN. PEARL HANDLE, with German Silver Tips 28.00

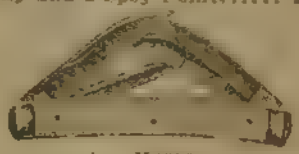
No. K3213.

Half Polished Blades; German Silver Bolsters and Shield; Brass Lining; Milled Back.

Per Dozen

No. K3213—3⅜ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear, 1 Large Sheep Foot Point, and 1 Pen..... .....$28.00

No. K3819—3¼ IN. PEARL HANDLE Three Large Blades, 1 Spear, 1 Clip and 1 Spey Point..... 20.00



No. K4293.

Per Dozen

No. K4293—3 IN. PEARL HANDLE, FOUR BLADES, 2 Large Sheep Foot Point Lengths and 1 File Half Polished Steel Bolsters; Brass Lining $24.00

No. K3760—3¼ IN. PEARL HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Steel Bolsters; Brass Lining 28.00

THREE BLADES, 1 Large Clip Point, 1 Pen and 1 File, Full Polished; German Silver Bolsters; Brass Lining; Milled Back.

No. K3034—3⅛ IN. PEARL HANDLE.....Per Dozen, $27.00

THREE BLADES, 1 Large Wharncliffe, 1 Pen and 1 File, Full Polished; German Silver Bolsters and Shield; Brass Lining; Milled Back. Per Dozen $27.00

No. K3528—3 IN. PEARL HANDLE.

One-half Dozen in a Cardboard Box; Weight per Dozen about 1⅛ lbs.

1917

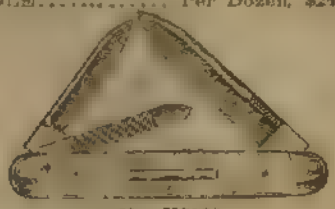
POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

TWO BLADES, 1 Large Eraser Point and 1 Pen, Full Polished; Brass Lining; Milled Back.

No. K02358—3¼ IN. PEARL HANDLE..... Per Dozen, $24.00



No. K3073.

German Silver Bolster and Shield; Brass Lining.

Per Dozen

No. K3073—3⅝ IN. PEARL HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished $26.00

No. K4073—3⅝ IN. PEARL HANDLE, FOUR BLADES, Large Spear Point, 2 Pen and 1 File, Full Polished 28.00

TWO BLADES, 1 Eraser and 1 Pen, Full Polished, German Silver Lining, with German Silver Ring.

No. K06358—3¼ IN. PEARL HANDLE.....Per Dozen, $20.00

TWO BLADES, 1 Large Spear Point and 1 Pen, German Silver Bolster, Cap and Shield, Brass Lining.

Per Dozen

No. K749—3¼ IN. PEARL HANDLE, Half Polished Blades...$20.00

No. K7711—3¼ IN. PEARL HANDLE, Full Polished Blades... 22.00

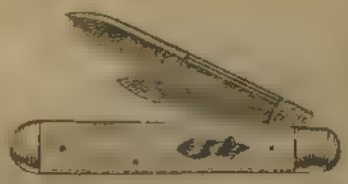
No. K0983.

Full Polished Blades; Hand Engraved Aluminum Bolsters, German Silver Lining.

Per Dozen

No. K0983—3⅛ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 File; Milled Back $19.00

No. K3983—3⅛ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen, 1 File.... 26.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap, Shield and Lining.

No. K2459—3½ IN. PEARL HANDLE . Per Dozen, $25.00

THREE BLADES, 1 Large Spear Point and 2 Pen, Full Polished; Hand Engraved Aluminum Bolsters; German Silver Lining.

No. K3380—2⅞ IN. PEARL HANDLE .....Per Dozen, $25.00

No. K3308.

Full Polished Blades, German Silver Bolsters and Shield, Brass Lining.

Per Dozen

No. K3308—3⅛ IN. PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File.$25.00

No. K0883—3⅛ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 File..... 18.00

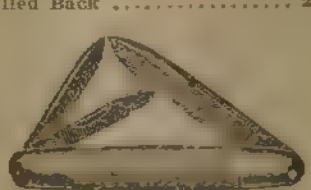
No. K0309R

Half Polished Blades; German Silver Bolsters; Brass Lining.

Per Dozen

No. K0309R—3 IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen.....$17.00

No. K309R—3 IN PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File Milled Back 25.00



THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished, German Silver Bolsters; Brass Lining

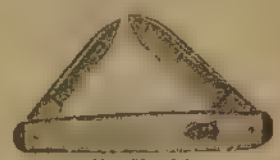
No. K3783—3⅛ IN. PEARL HANDLE.....Per Dozen, $24.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Tips; Brass Lining; Milled Back.

No. K02230 3⅛ IN. PEARL HANDLE .....Per Dozen, $24.00

TWO BLADES, 1 Large Clip Point and 1 Pen, Half Polished; German Silver Bolster and Cap; Brass Lining

No. K38234 —3⅛ IN PEARL HANDLE .....Per Dozen, $20.00



No. K0853.

Full Polished Blades; German Silver Tips and Shield, Brass Lining.

Per Dozen

No. K0853—2⅞ IN. PEARL HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... $17.50

No. K3753—2⅞ IN PEARL HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File.$25.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining, Milled Back.

No. K09T —3⅛ IN. PEARL HANDLE, WITH GERMAN SILVER TIPS.....Per Dozen, $23.00

TWO BLADES; 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining; Milled Back.

Per Dozen

No. K09 —3⅛ IN. PEARL HANDLE WITHOUT TIPS.....$23.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs

-1918

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K0408F.

Full Polished Blades; Brass Lining; Milled Back.

Per Dozen

No. K0408F—3⅛ IN. PEARL HANDLE; TWO BLADES, 1 Large Spear Point and 1 File; German Silver Tips $23.00

No. K0108—3⅛ IN. PEARL HANDLE; TWO BLADES, 1 large Spear Point and 1 File; German Silver Shield Without Tips..... 23.00

No. K2 1

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster and Shield; Brass Lining.

Per Dozen

No. K201—3⅛ IN. PEARL HANDLE; GERMAN SILVER CAP $20.00

No. K200—3¼ IN. PEARL HANDLE, WITHOUT CAP..... 22.00

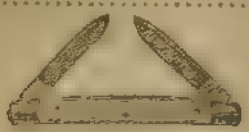
No. K04433.

Full Polished Blades; German Silver Lining.

Per Dozen

No. K04433—2⅝ IN PEARL HANDLE; TWO BLADES, 1 Large Sheep Foot Point and 1 Pen. $17.00

No. K4433—2⅝ IN. PEARL HANDLE; FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File 23.00



No. K [illegible]

T[illegible] 1 Pen and 1 File Blade [illegible] Silver Bolsters [illegible] Lining.

Per Dozen

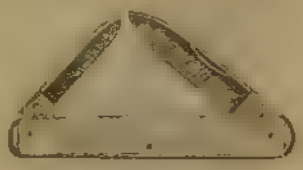
No. K0633—2⅝ IN. PEARL HANDLE, Full Polished Blades; German Silver Bolsters and Linings $12.00

No. K073[illegible] 2⅝ IN PEARL HANDLE; 2 Large Sheep Foot Point, 1 Pen.... 14 00

No. K473[illegible] 2⅝ IN PEARL HANDLE; FOUR [illegible] Large Sheep Foot Point, 1 Pen, 1 File 22 00

TWO BLADE[illegible] Wharncliffe and 1 Pen, Full Polished Brass Lining.

No. K0[illegible] IN PEARL HANDLE .....Per Dozen, $22.00



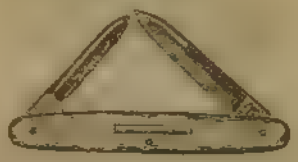
No. K083T.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining

Per Dozen

No. K083T—3⅛ IN. PEARL HANDLE; GERMAN SILVER TIPS $19.00

No. K083—3⅛ IN. PEARL HANDLE; WITHOUT TIPS..... 19.00



TWO BLADES, 1 Large Spear Point and 1 Pen; German Silver Tips and Shield; Brass Lining, Milled Back.

Per Dozen

No. K0388—2⅞ IN. PEARL HANDLE; Full Polished Blades..$20.00

No. K0323—3 IN PEARL HANDLE; Half Polished Blades.. 20.00

No. K02520.

Full Polished Blades; German Silver Bolsters; Brass Lining.

Per Dozen

No. K02520—2⅝ IN. PEARL HANDLE; TWO BLADES 1 Large Spear Point and 1 Pen.....$14.00

No. K2520—2⅝ IN. PEARL HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File Blade; Milled Back..... 20.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolsters; Brass Lining.

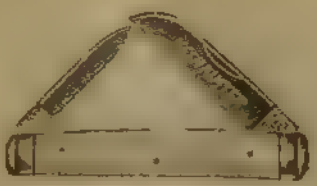
No. K0403—3⅛ IN. PEARL HANDLE.....Per Dozen, $18.00

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen; Brass Lining.

Per Dozen

No. K0433—3 IN. PEARL HANDLE Half Polished Blades; Steel Bolsters $18.00

No. K0933—2⅝ IN. PEARL HANDLE; Full Polished Blades; German Silver Bolsters..... 16.00



TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished; German Silver Bolsters; Brass Lining.

No. K0070—3¼ IN. PEARL HANDLE.....Per Dozen, $18.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; German Silver Bolsters and Shield; Brass Lining

No. K02463—3 IN. PEARL HANDLE .....Per Dozen, $18.00

TWO BLADES 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. K8WPC—2⅞ IN. PEARL HANDLE.....Per Dozen, $18.00

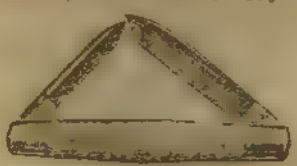
No. K710.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full polished; German Silver Bolster; Brass Lining.

Per Dozen

No. K710—2⅞ IN. PEARL HANDLE $10.00

No. K711—2⅞ IN. CURVED PEARL HANDLE; German Silver Cap. 17.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished. German Silver Bolsters; Brass Lining

No. K0212—3 IN PEARL HANDLE .....Per Dozen, $17.00

TWO PEN BLADES Full Polished, German Silver Tips and Shield Brass Lining.

No. K7206—3 IN. PEARL HANDLE .....Per Dozen, $17.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1[illegible] lbs.

KEYSTONE 14 K. SOLID GOLD WATCH CASES

16 SIZE

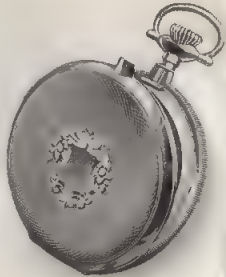
NO 2000. 6 SIZE HUNTING $44.00
NO 2001. 16 SIZE HUNTING 42.50
NO 2002. 16 SIZE HUNTING 44.00

CASE ONLY.
NO. 2003. 16 SIZE OPEN FACE $32.50
NO. 2004. 16 SIZE OPEN FACE . 47.50
NO. 2005. 16 SIZE OPEN FACE 50.50

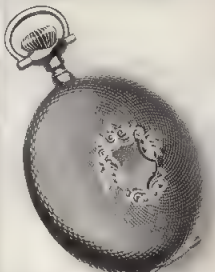
LIP PENDANT FIVE KNUCKLE JOINTS
NO 2006. 16 SIZE HUNTING $50.00
NO 2007. 16 SIZE HUNTING 52.00
NO 2008. 16 SIZE OPEN FACE 54.50

NO 2009. 16 SIZE HUNTING $44.00
NO 2010. 16 SIZE HUNTING 42.50
NO 2011. 16 SIZE OPEN FACE 41.50

CASE ONLY
NO 2012 16 SIZE SWING RING $42.00
NO 2013 16 SIZE SWING RING 41.50



LIP PENDANT FIVE KNUCKLE JOINTS
NO 2014. 16 SIZE HUNTING $45.00
NO. 2015. 16 SIZE HUNTING 50.00
NO 2016. 16 SIZE OPEN FACE 46.50



NO. 2017 16 SIZE HUNTING $50.00
NO. 2018. 16 SIZE OPEN FACE 46.50

NO. 2019. 16 SIZE HUNTING $55.00
NO. 2020. 16 SIZE OPEN FACE 50.50

NO. 2021. 16 SIZE HUNTING $61.00

KEYSTONE 14 K. SOLID GOLD WATCH CASES

16 SIZE

NO 2022 16 SIZE HUNTING $44.50

NO 2025 16 SIZE HUNTING $44.50

NO 2024 16 SIZE HUNTING $44.50

NO 2031 16 SIZE HUNTING $50.50

NO 2026 16 SIZE HUNTING $60.00

NO 2027 16 SIZE HUNTING $54.50

NO 2028 16 SIZE HUNTING $60.00

NO 2029 16 SIZE HUNTING $75.00

RAISED ORNAMENTED

NO 2030 16 SIZE HUNTING NO DIAMOND $63.50

NO 2032 16 SIZE HUNTING WITH DIAMOND 76.50

KEYSTONE 14 K. SOLID GOLD WATCH CASES

12 SIZE

NO 2035 12 SIZE HUNTING $36.00
NO 2036 12 SIZE HUNTING 40 50
NO 2037 12 SIZE OPEN FACE 47 50

NO. 2035. 12 SIZE HUNTING $36.00
NO 2036 12 SIZE HUNTING 40 50
NO 2037. 12 SIZE OPEN FACE 47 50

EXP PENDANT FILE KNUCKLE 40 NTS.
NO 2038 12 SIZE HUNT NO $56.50

NO. 2039. 12 SIZE HUNTING ... $46.50
NO 2040. 12 SIZE OPEN FACE . 40.00

NO. 2041. 12 SIZE OPEN FACE . $39.00
NO 2042 12 SIZE OPEN FACE 36.00
NO 2043. 12 SIZE OPEN FACE 47 50

EXP PENDANT FILE KNUCKLE POINTS
NO 2044 12 SIZE HUNT . $49.50

NO 2045. 12 SIZE HUNT NO $46.00

NO 2046 12 SIZE HUNTING $49.00

NO 2048 12 SIZE HUNT NO $40 50

KEYSTONE 14 K. SOLID GOLD WATCH CASES

12 SIZE

NO. 2049 12 SIZE HUNTING $36.00

NO. 2050 12 SIZE HUNTING $38.00

NO. 2051 12 SIZE HUNTING $40.00

NO. 2052 12 SIZE HUNTING $42.00

NO. 2053 12 SIZE HUNTING $44.00

NO. 2054 12 SIZE HUNTING $46.00

NO. 2055 SIZE HUNTING $48.00

BALL ORNAMENTED
NO. 2056 12 SIZE HUNTING NO DIAMOND $46.00
NO. 2057 12 SIZE HUNTING ONE DIAMOND $50.00

NO. 2058 12 SIZE HUNTING $48.00

KEYSTONE 14 K. SOLID GOLD WATCH CASES

O SIZE

CASE ONLY
NO. 2055 O SIZE OPEN FACE $15.00
NO. 2060 O SIZE OPEN FACE 18.00
NO. 2061 O SIZE OPEN FACE 28.50

NO. 2062 O SIZE HUNT NO. $20.00
NO. 2063 O SIZE HUNT NO. 27.50
NO. 2064 O SIZE HUNT NO. 28.00

LIP PENDANT
FIVE KNUCKLE 20 KTS.
NO. 2065 O SIZE HUNTING $25.50
NO. 2066 O SIZE HUNTING 48.00

NO. 2067 O SIZE HUNT [illegible] $20.00
NO. 2068 O SIZE HUNT NO. [illegible]
NO. 2069 O SIZE HUNT NO. 28.00

NO. 2070. O SIZE HUNT NO. $25.50
NO. 2071 O SIZE OPEN FACE 22.50

NO. 2072 O SIZE HUNT NO. $27.50
NO. 2073. O SIZE OPEN FACE 24.50

NO. 2074 O SIZE HUNTING $27.50
NO. 2075. O SIZE OPEN FACE 24.00

NO. 2076 O SIZE HUNTING $36.00
NO. 2077. O SIZE OPEN FACE 32.50

[illegible] BRILLIANT
NO. 2078. O SIZE HUNT NO. $26.50

ONE BRILLIANT
NO. 2079 O SIZE HUNTING $32.00

ONE BRILLIANT
NO. 2080. O SIZE HUNTING $40.00

FIVE BRILLIANTS
NO. 2081 O SIZE HUNTING $50.00

FIVE ROSE DIAMONDS
NO. 2 [illegible]

ONE ROSE DIAMOND
NO. 2083 O SIZE HUNTING $28.50

ONE ROSE DIAMOND
NO. 2084 O SIZE HUNTING $35.50

TWELVE ROSE DIAMONDS
NO. 2085. O SIZE [illegible]

KEYSTONE 14 K. SOLID GOLD WATCH CASES

O SIZE

NO. 7[illegible] O SIZE HUNT NICKEL $20.50

NO. 2087 O SIZE HUNTING $20.50

NO. 2088 O SIZE HUNT NICKEL $20.50

NO. 2089 O SIZE HUNTING $20.50

NO. 2090 O SIZE HUNT NICKEL $23.00

NO. 2091 O SIZE HUNT NICKEL $24.00

NO. 2092 O SIZE HUNTING $24.00

NO. 2093 O SIZE HUNT NICKEL $24.00

NO. 2094 O SIZE HUNTING $27.50

NO. 2095 O SIZE HUNT NICKEL $27.50

NO. 2096 O SIZE HUNT NICKEL $27.50

NO. 2097 O SIZE HUNT NICKEL $27.50

NO. 2098 O SIZE HUNTING $31.50

NO. 2099 O SIZE HUNTING $30.50

NO. 2100 O SIZE HUNT NICKEL $30.50

NO. 2101 O SIZE HUNTING $36.00

LAMPS

HALL, DEN AND DINING ROOM

LENGTH—Closed, 45 Inches Extended 57 Inches.
BURNER—No. 1 with 4-inch Wick
CHIMNEY—No 1 Sun
METAL PARTS Solid Bronze, Rich Gilt Finish
GLOBE—10-inch, Frosted Panels with Clear Edges or Stripes
FOUNT—Crystal Glass

	Each
No. 10018—Panels, Clear Stripes Complete with Chimney and Wick	$6.10

One in a Box Shipping Weight 15 Pounds

LENGTH Closed, 28 Inches Extended, 50 Inches
BURNER—No 2 with Lynch Wick
CHIMNEY—No 2 Sun
EXTENSION—Automatic Spring
METAL PARTS—Solid Bronze
DOME 14-inch Pink with Egyptian Decoration, Black Stripes
FRIDGE—5-inch Pink Bead
FOUNT—Decorated to Match Dome

	Each
No 9058—Complete with Chimney and Wick	$9 00

One in a Barrel Shipping Weight, 35 Pounds

LENGTH Closed 45 Inches, Extended 56 Inches
BURNER—No 1 with Lynch Wick
CHIMNEY—No 1 Sun
METAL PARTS Wrought Brass Bronze Finish
LANTERN—6x8-inch Panels Green Opalescent Art Glass
FOUNT—Crystal Glass

	Each
No. 10035—Complete with Chimney and Wick	$6 00

One in a Box Shipping Weight 15 Pounds

No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

★NORTHERN QUEEN ASSORTMENT LIBRARY HANGING—THREE LAMPS

Northern Queen Assortment Contains Three Lamps, One of Each Style as Shown and Described Below Each Complete with No. 2 Burner, Chimney and Wick.

No. 9056

LENGTH—Closed, 28 Inches; Extended, 65 Inches.
BURNER—No. 2, with 1-inch Wick
CHIMNEY—No. 2, Sun
EXTENSION—Automatic Spring
METAL PARTS—Solid Bronze, Rich Gilt Finish
FRINGE—Imported Pink Bead, 5 Inches Deep
DOME—14-inch, Pink with Egyptian Decoration; Black Stripes.
FOUNT—Decorated to Match Dome

No. 9071

LENGTH—Closed, 35 Inches; Extended, 72 Inches.
BURNER—No. 2, with 1-inch Wick
CHIMNEY—No. 2, Sun.
EXTENSION—Automatic Spring.
METAL PARTS—Solid Bronze, Rich Gilt Finish
PRISMS—28 Cut Glass.
DOME—14-inch Green, Decorated with Hunting Scene in Pink.
FOUNT—Decorated to Match Dome.

No. 9067

LENGTH—Closed 28 Inches; Extended, 65 Inches.
BURNER—No. 2, with 1-inch Wick
CHIMNEY—No. 2, Sun
EXTENSION—Automatic Spring
METAL PARTS—Solid Bronze, Rich Gilt Finish
DOME—14-inch, Red Chrysanthemum Decoration, with Ruby Background
FOUNT—Decorated to Match Dome

Per Assortment

★ **Northern Queen Assortment**—Three Lamps, as Above Described, Complete with Burners, Chimneys and Wicks $26 40

Sold in Complete Assortments Only. One Complete Assortment in a Barrel. Shipping Weight, 75 Pounds.

No Additional Charge for Packing

"Diamond Edge is a Quality Pledge"

LAMPS

★ RAINBOW ASSORTMENT LIBRARY HANGING THREE LAMPS

Rainbow Assortment Contains Three Lamps, One of Each Style as Shown and Described Below

Each Complete with No. 2 Burner, Chimney and Wick

No. 9006

LENGTH about 41 Inches over all, 5 Inches

BURNER No. 2 with Tubular Wick

CHIMNEY No. 2 Size

EXTENSION Tubular Weight

METAL PARTS Solid Brass, Rich Gilt Finish

DOME 14 Inch, White with Red Rose Decoration

DESIGN Rose Effect

FOUNT Large Bulge Shape

No. 9010

LENGTH about 44 Inches over all, 5 Inches

BURNER No. 2 with Tubular Wick

CHIMNEY No. 2 Size

EXTENSION Tubular Weight

METAL PARTS Solid Brass, Rich Gilt Finish

DOME 14 Inch, White with Red Rose Decoration

DESIGN Rose Effect

FOUNT Large Bulge Shape

No. 9005

LENGTH about 44 Inches over all, 50 Inches

BURNER No. 2 with Tubular Wick

CHIMNEY No. 2 Size

EXTENSION Tubular Weight

METAL PARTS Solid Brass, Rich Gilt Finish

DOME 14 Inch, Opal with Red Rose Decoration

DESIGN Opal Decorated Effect

FOUNT Large Bulge Shape

Per Assortment

★ Rainbow Assortment [illegible] as Above Described Complete with Oil Burners, Chimneys and Wicks $17.60

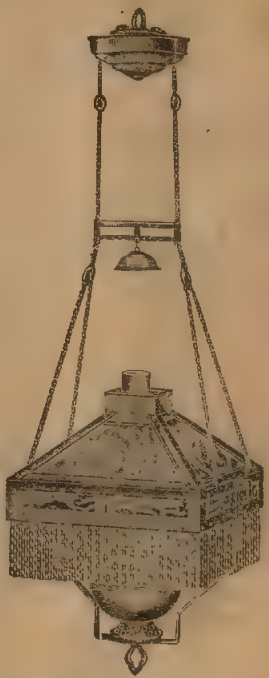
Sold In Complete Assortments Only [illegible] Shipping Weight [illegible] Pounds

No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

LIBRARY HANGING



LENGTH—Closed 32 Inches, Extended 70 Inches
BURNER—Success, Center Draught, 100 Candle Power
CHIMNEY—Size as No. 13
WICK—Round, Size No. 1
EXTENSION—Automatic Spring
METAL PARTS—Solid Brass, Finished in Brushed Brass
DOME—14 Inches square, with Two and Six Panels, High Color Green Art Glass
FRINGE—Sconch, Imported Green Bead.
FOUNT—Success, Center Draught

	Each
No. 10022—Complete with Chimney and Wick	$18.50
No. 10020—Complete with Chimney and Wick	$19.85

One in a Barrel—Shipping Weight, 50 Pounds

No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

LIBRARY HANGING

LENGTH—Closed, 34 Inches; Extended, 71 Inches
BURNER—No. 2, with Linch Wick
CHIMNEY—No. 2, Sun.
EXTENSION—Automatic Spring
METAL PARTS—Solid Bronze, Rich Gilt Finish
DOME—14-inch, Dark Green Tint with Large Red Chrysanthemum Decoration
PRISMS—28 Cut Glass
FOUNT—Decorated to Match Dome

Each

No. 9081—Complete with Chimney and Wick $11.00

One in a Barrel. Shipping Weight, 35 Pounds.

LENGTH—Closed, 34 Inches; Extended, 71 Inches
BURNER—No. 2, with Linch Wick
CHIMNEY—No. 2, Sun
EXTENSION—Automatic Spring
METAL PARTS—Solid Bronze, Highly Polished
DOME—14-inch, with Large Pink Tiger Lily on Pink Background
FRINGE—Imported Pink Bead, 5 Inches Wide
FOUNT—Decorated to Match Dome

Each

No. 9076—Complete with Chimney and Wick $11.00

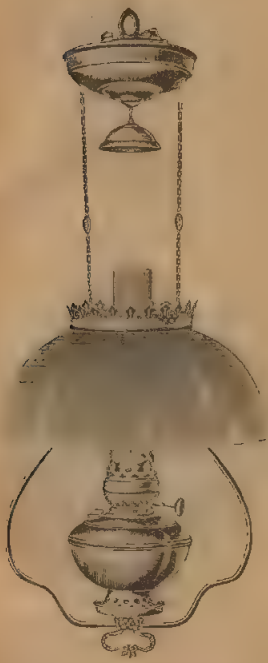
One in a Barrel. Shipping Weight, 35 Pounds.

No Additional Charge for Packing.

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

LIBRARY HANGING



LENGTH—Closed, 28 Inches, Extended, 65 Inches
BURNER—Success, Center Draught
CHIMNEY—Belgian No. 1½
WICK—Rayo 1 Reducer No. 1
EXTENSION—Automatic Spring
METAL PARTS—Very Heavy Brass
DOME—14 inch, Plain
FOUNT—Plain Finished Brass

	Each
No. 9015—Opal Dome, Complete with Chimney and Wick	$8.60
No. 9015G—Dome, Frosted Globe, Wick Tube Complete with Chimney and Wick	11.00

One in a Box—Shipping Weight, 45 Pounds

LENGTH—Closed, 44 Inches, Extended, 89 Inches
BURNER—No. 2, with Lift Work
CHIMNEY—No. 2, Sun
EXTENSION—Patent Vogue
METAL PARTS—Solid Bronze Rubbed Finish
DOME—[illegible] with Edge Decoration
FOUNT—Cased Glass with Outside Font

	Per Assortment
No. 9000—Complete with Chimney and Wick	$1.70

Two in a Box—Shipping Weight, 50 Pounds

Sold Only as Packed—no Barrels Broken

No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLEDGE"

SOLAR AUTOMOBILE LAMPS

†SOLAR-ECLIPSE GAS HEADLIGHT

This is the Most Powerful Light Projector Produced and is Designed for Large Cars and where a Light of Extreme Brilliance is Required. Fitted with Ground and Polished Glass Lens Reflector and Front Plano Convex Lens. Built by the Most Exact Scientific Construction and of the Highest Grade of Material and Workmanship. These Lamps must be Mounted on Extra Heavy Forged Pitchfork Brackets with Cross Bars Connecting Inside Prongs at Top. When Ordering for Steering Post Control Give Diameter of Steering Columns.

	Per Pair
†No. 1150S/BB—Black and Brass; Outside Diameter of Door 12½ inches, Diameter of Lens 10½ inches	$168 80 103 00
†No. 1150S/BN Black and Nickel, Outside Diameter of Door 12½ inches Diameter of Lens 10½ inches	173 25 105 00
One Pair in a Case; Weight per Case 70 lbs.	
†No 1140S/BB—Black and Brass, Outside Diameter of Door 11¼ inches Diameter of Lens 9 inches	136 20 82 50
†No. 1140S/BN—Black and Nickel, Outside Diameter of Door 11¼ inches, Diameter of Lens 9 inches	140 25 85.00
One Pair in a Case, Weight per Case 55 lbs.	

SOLAR MODEL 12 GAS HEADLIGHT

This is the New Style Solar Lamp, Is Larger in Front Diameter than Comparative Sizes of Other Lamps. The Body and Flare are Drawn from One Piece of Heavy Gauge Brass. The Exclusive Solar Lead Glass Lens Mirror is of Shorter Focus and More Efficient than Any Other Which with the Front Aluminum Reflector, Produces the Two Necessary Fields of Light. Has Adjustable Tip; Removable Door Glass, Lens Mirror and Front Reflector.

	Per Pair
†No. 1236BB Black and Brass; Outside Diameter of Door 9½ inches, Diameter of Front Glass 8½ inches	$21 90 13 25
No. 1236BN—Black and Nickel; Outside Diameter of Door 9½ inches, Diameter of Front Glass 8½ inches	23.10 14 00
One Pair in a Case, Weight per Case 28 lbs.	
†No. 1246BB—Black and Brass; Outside Diameter of Door 10½ inches; Diameter of Front Glass 9 inches	23 58 14 25
No. 1246BN—Black and Nickel, Outside Diameter of Door 10½ inches; Diameter of Front Glass 9 inches	25.75 15 00
One Pair in a Case; Weight per Case 33 lbs	

SOLAR JUNIOR TORPEDO SIDE LAMPS

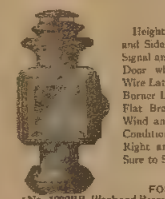
Made Entirely of Heavy Drawn Brass; Height 9⅝ inches without Bail, Has 4⅜ inch Optical Front Glass and One Piece Aluminum Reflector; Has Solar Patent Safety Oil Fount Catch and Combination Prop for Round or Flat Bracket. Burns 24 Hours. Guaranteed Wind and Jar Proof and to Stay Lit Under all Conditions of Motor Car Use.

FOR OIL ONLY	Per Pair
†No. 0404B/BB—Black and Brass, Weight per Pair 6 lbs.	$14 85 9 00
No. 0404B/BN—Black and Nickel; Weight per Pair 6 lbs.	15.38 9.25

COMBINATION OIL AND ELECTRIC

Complete with 4 C. P. 6 Volt Edison Mazda Bulbs.

	Per Pair
†No. 0404BC/BB—Black and Brass, Wt. per Pair 6 lbs.	$19 80 12.00
No. 0404BC/BN—Black and Nickel; Wt. per Pair 6 lbs.	20 85 12.25



SOLAR SIDE LAMPS

Height 12 inches, With 3¾ Inch Square Front and Side Beveled Plate Glass; 1 inch Ruby Rear Signal and Silver Plated Linings; Side Glass Forms Door which Has Simple and Secure Patented Wire Latch; Has Solar Patent Oil Fount Catch and Burner Lock and Combination Prop for Round or Flat Brackets; Burns for 24 Hours; Guaranteed Wind and Jar Proof, and to Stay Lit Under All Conditions of Motor Car Use. Sold by the Pair, Right and Left. If Only Half Pair Wanted be Sure to State Whether Right or Left.

FOR OIL ONLY	Per Pair
†No. 1233BB Black and Brass; Weight per Pair 8 lbs.	$16 50 10 00
No. 1232BN Black and Nickel, Weight per Pair 8 lbs.	18.15 11 00

COMBINATION OIL AND ELECTRIC

Complete with 4 C. P. 6 Volt Edison Mazda Bulbs

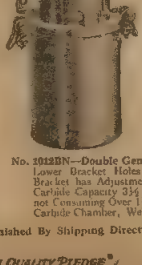
	Per Pair
†No 1232CBB Black and Brass; Weight per Pair 8 lbs..	$21 50 13 00
No. 1232CBN—Black and Nickel, Weight per Pair 8 lbs..	23.10 14 00

SOLAR TAIL LAMPS

Made Entirely of Heavy Drawn Brass and Riveted Throughout, Height 9½ inches; Has 3½ inch White Lens on Right to Show Number; 3 inch Rear Ruby Lens and Aluminum Reflector, Has Solar Patent Safety Oil Fount Catch and Standard Combination Prop for Round or Flat Bracket; Burns 24 Hours; Guaranteed Wind and Jar Proof and to Stay Lit Under All Conditions of Motor Car Use.

FOR OIL ONLY	Each
No. 1205BB—Black and Brass; Weight 2 lbs.	$5 85 3 50
No 1205BN Black and Nickel; Weight 2 lbs.	6 28 3 75

COMBINATION OIL AND ELECTRIC	Each
No. 1205C/BB—Black and Brass, Weight 2 lbs.	$8.25 5 00
No. 1205C/BN—Black and Nickel, Weight 2 lbs.	9 75 6 25



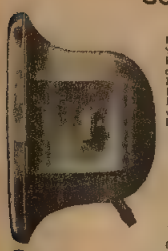
SOLAR GAS GENERATORS

Heavy Polished Drawn Brass; Enameled Black, with Nickel Trimmings; Seamless Upper and Lower Sections; Patent Adjustable Cam Lock Fastens Upper and Lower Tanks Securely Together; Rubber Gasket or Washer at Joint Formed by the Two Sections.

	Each
No. 2012BN—Double Generator; 15 inches High, 8 inches Wide; Lower Bracket Holes 5½ inches Between Centers, Upper Bracket has Adjustment from 2½ to 5 inches from Lower; Carbide Capacity 3½ lbs.; Suitable for any Two Headlights not Consuming Over 1½ feet of Gas per Hour; Waterproofed Carbide Chamber, Weight 10 lbs.	$14 50 10.00

Items Marked † Not Carried in Stock; Can Only Be Furnished By Shipping Direct From Factory, Kenosha, Wis

SOLAR ELECTRIC AUTOMOBILE LAMPS

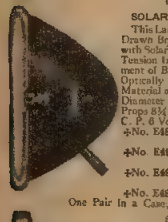


SOLAR DE LUXE HEADLIGHT

This is the Most Exclusive and Artistic Headlamp on the Market. It is Especially Suitable for Cars with Straight Line or Enclosed Type Body, Made of the Highest Grade Workmanship and Materials Has Focal Adjustment of the Bulb with Reflectors Outside Diameter 12⅛ inches Depth 8¼ inches, Props 9¼ inches Between Centers. Equipped with 21 C. P. Ediswan Mazda 6 Volt Bulb.

	Per Pair
+No. E448B—All Brass	$48 00 28 00
+No. E448BB—Black and Brass	47 85 29 00
+No. E448BN—Black and Nickel	49.50 30.00
+No. E448N—All Nickel	51.15 31 00

One Pair in a Case, Weight per Case 48 lbs.

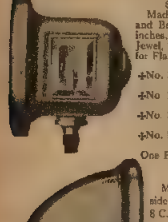


SOLAR PARABOLECTRIC HEADLIGHT

This Lamp is Paraboloid in Shape; Made of Heavy Drawn Brass with Large Rolled Door Frame Fitted with Solar Connectors and Sockets and with Spring Tension Insulated Terminals. Has Focal Adjustment of Bulb and Reflectors. The Reflectors are Optically Correct. They are made of the Finest Material and by the Most Skilled Labor. Outside Diameter 11¾ inches; Depth 7 inches, Bracket Props 8¾ inches Between Centers. Fitted with 18 C. P. 6 Volt Mazda Bulbs. Per Pair

+No. E487B—All Brass	$30 00 18 50
+No. E487BB—Black and Brass	31.80 19 25
+No. E487BN—Black and Nickel	33 00 20 00
+No. E487N—All Nickel	34 85 21 00

One Pair in a Case, Weight per Case 32 lbs.

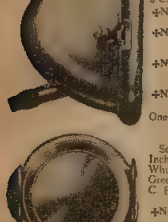


SOLAR DE LUXE SIDE LAMP

Made to Match No. E448 Headlights. Finest and Best Lamp Made; Outside Diameter 6⅝ inches, Depth 5½ inches, 2 inch Rear Red Jewel 2½x2¾ inches, White Side Glass, Prop for Flat Bracket; 4 C. P. 6 Volt Mazda Bulb. Per Pair

+No. E428B—All Brass	$27 30 16 50
+No. E428BB—Black and Brass	28 10 17 00
+No. E428BN—Black and Nickel	29 00 17 50
+No. E428N—All Nickel	29 70 18 00

One Pair in a Case, Weight per Case 20 lbs.

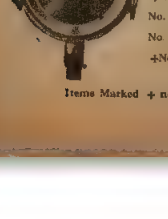


SOLAR SIDE LAMP

Made to Match No. E487 Headlights Outside Diameter 7¼ inches, Depth 5¼ inches, 8 C. P. 6 Volt Mazda Bulb. Per Pair

+No. E486B—All Brass	$23 10 14 00
+No. E486BB—Black and Brass	24.00 14.50
+No. E486BN—Black and Nickel	24 75 15 00
+No. E486N—All Nickel	25 65 15 50

One Pair in a Case; Weight per Case 25 lbs.



SOLAR TAIL LAMP

Seamless Brass; Ball Shaped, Height 5½ Inches, 3½ inch Red Rear Lens, 2½ inch White Lens to Show Number, 2 inch Left Green Jewel for Flat or Round Brackets, 3 C. P. 6 Volt Mazda Bulb. Each

+No. 1301EB—All Brass	$5 65 3.40
No. 1301EBB—Black and Brass	5 85 3 50
No. 1301EBN—Black and Nickel	6 20 3 75
+No. 1301EN—All Nickel	6 20 3 75

Loose; Weight 1 lb.

SOLAR ALPHA HEADLIGHT

This is a Bold, Flared French Type Headlight Suitable for all Types of Cars. Has Heavy Drawn Brass Body with Large Roll Front. Fine Quality Lens and Reflectors, Equipped with Solar Focal Adjustment of Bulb and Reflectors Outside Diameter 11½ inches, Depth 6¾ inches Props 9¼ inches Between Centers Fitted with 18 C. P. 6 Volt Ediswan Mazda Bulb Per Pair

+No. E418B—All Brass	$33 00 20 00
+No. E418BB—Black and Brass	34 35 20 75
+No. E418BN—Black and Nickel	35 00 21 50
+No. E418N—All Nickel	37 20 22 50

One Pair in a Case; Weight per Case 32 lbs.

SOLAR ACORN HEADLIGHT

This Lamp is a Parboloid in Shape, Made of Heavy Drawn Brass, Fitted with Solar Connectors and Sockets and with Spring Tension Insulated Terminals. Has Focal Adjustment of Bulb and Reflectors. Reflectors are Optically Perfect. This is an Extremely Fine Lamp at a Moderate Price. Made in Two Sizes. Outside Diameter 10½ inches, 6¾ inches Deep. Props 8¼ inches Between Centers; with 8 C. P. 6 Volt Mazda Lamps. Per Pair

+No. E446B—All Brass	$27 30 16 50
+No. E446BB—Black and Brass	28 50 17.25
+No. E446BN—Black and Nickel	29 75 18.00
+No. E446N—All Nickel	31 35 19.00

Outside Diameter 9½ in., 5¾ inches Deep; Props 7 inches Between Centers, with 12 C. P. 6 Volt Mazda Bulbs. Per Pair

+No. E436B—All Brass	$24 75 15.00
No. E436BB—Black and Brass	26 00 15.75
No. E436BN—Black and Nickel	27 30 16.50
+No. E436N—All Nickel	29 00 17.50

One Pair in a Case, Weight per Case 30 lbs.

SOLAR DASH SIDE LAMP

Made to Match No. E418 Head Lamp, Outside Diameter 7¾ inches, 6¾ inch Rolled Plate Front Glass; Depth 6¾ inches Combination Prop for Round or Flat Bracket 3½ inch Bent Bevel Plate Side Glass, 4 C. P. 6 Volt Mazda Bulb. Per Pair

+No. E400B—All Brass	$23 10 14 00
+No. E400BB—Black & Brass	24.00 14 50
+No. E400BN—Black & Nickel	24 75 15 00
+No. E400N—All Nickel	25.65 15 50

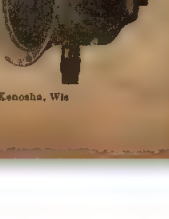
One Pair in a Case; Weight per Case 20 lbs.

SOLAR SIDE LAMP

Made to Match No. E446 Headlight; Outside Diameter 9 inches, Depth 8 inches; 4 C. P. 6 Volt Mazda Bulbs. Per Pair

+No. E6B—All Brass	$16 50 10 00
No. E6BB—Black & Brass	17 40 10 50
No. E6BN—Black & Nickel	17 75 10 75
+No. E6N—All Nickel	18.15 11 00

Loose, Weight 1¾ lbs.



SOLAR TAIL LAMP

Round Style Outside Diameter 4 inches Depth 3¾ inches Solar Reflex Swivel Socket 1¼ inch White Lens to Show Number For Flat or Round Brackets 3 C. P. 6 Volt Mazda Bulbs. Each

+No. 100EB—All Brass	$4 00 2 4
No. 100EBB—Black and Brass	4 20 2 50
No. 100EBN—Black and Nickel	4 50 2.75
+No. 100EN—All Nickel	4 50 2 75

Loose, Weight 1 lb.

Items Marked + not Carried in Stock; can only be Furnished by Shipping Direct from Factory, Kenosha, Wis

SOLAR ELECTRIC AUTOMOBILE LAMPS

SOLAR LIMOUSINE LAMP

This is an Artistic Tapered Hexagon Side Lamp; 12½ inches High; 5½ inches at Greatest Diameter; Has Three Round End, Tapered and Beveled Plate Glass Sides; the Other Three Sides Being Metal Panels, Similar in Outline; Rounded Top and Bottom with Ball Ends, Metal Panels and Lamp Tops Heavily Silver Lined, Fits Either Flat or Round Brackets. . 4 C. P. 6 Volt Mazda Bulb.

		Per Pair
†No. L216B	Alt Brass	$46 20 26 00
†No. L216BB	—Black and Brass..	47 85 29.00
†No. L216BN	—Black and Nickel	49 35 30 00
†No. L216N	—All Nickel	49 50 30 00

One Pair in a Case; Weight per Case 20 lbs.

This is the Latest Thing in Tail Lamps; Length 10 inches; Depth 1¼ inches; Height 3½ inches with 2½ inch Extension on Bottom for Holding License Number. Has 2½ inch Ruby Lens; 1¼x2¾ inch White Glass on Bottom for License Number. Will Not Rattle or Jar to Pieces. 4 C. P. 6 Volt Mazda Bulb.

		Each
†No 103EB	Alt Brass	$7 85 4 70
†No 103EBB	—Black and Brass	8 05 4 85
†No 103EBN	Black and Nickel	8 25 5 00
†No. 103EN	—All Nickel	8 70 5 25

Loose; Weight 1½ lbs.

VESTA ELECTRIC AUTOMOBILE LAMPS

One of the Strongest Features of the Vesta Lamp is its Patent Focusing Device. A Small Button at the Back of Each Head Lamp Enables the Operator to Adjust the Focus of his Lamps to Meet All Requirements; a Few Turns of the Button Results in a Spreading or Concentrated Spot Light.

VESTA ACORN TYPE HEADLIGHT

With Silver Plated Reflectors and Tungsten Bulbs

6 Volt 12 C. P. (Will Furnish More C. P. if Wanted)

		Each
No. A5BB	—Black and Brass Diameter 5¾ in., Wt 3 lbs.	$10 80 6 50
No. A5BN	—Black and Nickel, Diameter 5¾ in., Wt 3 lbs.	10 80 6 50
No. A5N	—Nickel Plated Diameter 5¾ in., Wt 3 lbs.	11 80 7 15
No. A6BB	Black and Brass; Diameter 6½ in.; Wt. 4 lbs	12 35 7 40
No. A6BN	Black and Nickel Diameter 6½ in., Wt 4 lbs	12 35 7 40
No. A6N	—Nickel Plated, Diameter 6½ in. Wt 4 lbs.	13 65 8 25
No. A8BB	—Black and Brass Diameter 8½ in., Wt 5 lbs.	15 65 9 50
No. A8BN	—Black and Nickel, Diameter 8½ in., Wt. 5 lbs.	15 65 9.50
No. A8N	—Nickel Plated, Diameter 8½ in. Wt. 5 lbs	17 30 10 45
No. A10BB	Black and Brass Diameter 10 in.; Wt 6½ lbs	19 80 12 00
No. A10BN	—Black and Nickel, Diameter 10 in., Wt. 6½ lbs.	19.80 12.00
No. A10N	—Nickel Plated; Diameter 10 in.; Wt. 6½ lbs..	21 80 13 20
No. A12BB	—Black and Brass; Diameter 12 in.; Wt. 8 lbs...	29 70 18.00
No. A12BN	—Black and Nickel, Diameter 12 in., Wt. 8 lbs	29 70 18 00
No. A12N	Nickel Plated, Diameter 12 inches, Wt. 8 lbs.	32 70 19.80

One in a Carton

VESTA FLARE HEADLIGHT

With Silver Plated Reflectors and Tungsten Bulbs

6 Volt 12 C. P. (Will Furnish More C. P. if Wanted)

		Each
No. F7BB	Black and Brass Diameter 7½ in. Wt 4 Lbs	$14 85 9 00
No. F7BN	Black and Nickel, Diameter 7½ in., Wt 4 lbs	14 85 9 00
No. F7N	—All Nickel Diameter 7½ inches, Weight 4 lbs	16 40 9 90
No. F8BB	Black and Brass, Diameter 8½ in.; Wt. 4½ lbs.	17 40 10 50
No F8BN	Black and Nickel Diameter 8½ in., Wt 4½ lbs	17 40 10 50
No. F8N	Nickel Plated, Diameter 8½ in., Wt 4½ lbs.	19 15 11 50
No. F10BB	Black and Brass Diameter 10 in. Wt 6½ lbs	23 55 14 25
No. F10BN	Black and Nickel Diameter 10 in. Wt 6½ lbs	23 85 14 25
No. F10N	—Nickel Plated Diameter 10 in., Wt. 6½ lbs..	25 85 15 67
No. F12BB	Black and Brass, Diameter 12 in. Wt 8 lbs.	29 70 18 00
No F12BN	Black and Nickel Diameter 12 in. Wt. 8 lbs	29 70 18 00
No. F12N	—Nickel Plated, Diameter 12 in., Wt. 8 lbs..	32 70 19 80

One in a Carton

VESTA ACORN TYPE SIDE DASH LAMP

Equipped with Focusing Device, Parabolic Silver Plated Reflector and Tungsten Bulb. Diameter 5⅜ inches. 6 Volt C. P.

		Per Pair
No. 215BR	—Black and Brass..	$19 80 12 00
No. 215BN	Black and Nickel	19 80 12 00
No. 215N	—Nickel Plated	21 80 13 20

One Pair in a Carton, Weight per Pair 8 lbs.

VESTA ELECTRIC VEHICLE HEADLIGHT

This Lamp is Especially Adapted for Use on Electric Vehicles. It has a Long Adjustable Rod with Knurled Nut at the Rear End for Attaching Under the Front Hood of the Machine. The Lamp is Equipped with Edlavan Base Arrangement, so that the Focus can be Adjusted.

Has Silver Plated Reflector and Tungsten Bulb. Diameter 8 in.; 6 Volts 12 C. P.

		Each
No. 128BB	—Black and Brass	$14 85 9 00
No. 128BN	—Black and Nickel	14 85 9 00
No. 128N	—Nickel Plated	16 40 9 90

One in a Carton Weight 5 lbs.

VESTA ELECTRIC LAMPS

PILLAR

Electric Pillar Lamps are Used on Most Limousine Bodies They are Made of Heavy Polished Brass, The Inside Trimmings and Reflector are Heavily Silver Plated, They are Hand Made Throughout, Nothing but the Finest Workmanship and Material Enter into their Construction. 6 Volt 6 C. P. (Greater Candle Power Lamps will be Furnished if Desired.)

Height 11¼ inches; Diameter 4x4½ inches.

	Per Pair	
No. 404BB—Black and Brass	$24 75	15 00
No. 404BN—Black and Nickel	24.75	15 00

One Pair in a Carton, Weight per Pair 7 lbs.

Height 14½ inches; Diameter 5x5½ inches.

	Per Pair	
No. 405BB—Black and Brass	$33 00	20 00
No. 405BN—Black and Nickel	33 00	20 00

One Pair in a Carton, Weight per Pair 9 lbs.

Height 13¾ inches; Diameter 5x5 inches, with Eagle Mounted on Top of Lamp.

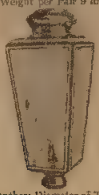
	Per Pair	
No. 407BB—Black and Brass	$33 45	17 00
No. 407BN—Black and Nickel	33 45	17.00

One Pair in a Carton, Weight per Pair 8 lbs.

Height 12 inches; Diameter 6x5 inches.

	Per Pair	
No. 406BB Black and Brass.	$24 75	15 00
No. 406BN—Black and Nickel	24 75	15 00

One Pair in a Carton, Weight per Pair 8 lbs.



Height 13 inches; Diameter at Top 5x5 inches.

	Per Pair	
No 411BB Black and Brass	$33 00	20 00
No. 411BN Black and Nickel	33 00	20.00

One Pair in a Carton, Weight per Pair 9 lbs.

Height 10 inches, Diameter at Top 5x5 inches.

	Per Pair	
No. 410BB—Black and Brass	$26 40	16 00
No. 410BN—Black and Nickel	26.40	16 00

One Pair in a Carton, Weight per Pair 8 lbs.

TAIL.

Vesta Tail Lamps Have Red Rear Lens and White Side Lens for Throwing Light on License Number; They are Equipped with Tungsten Bulb and are Complete Ready to Attach to Wires. 6 Volt 2 C. P. Bulbs.

	Diameter 3½ inches	Each
No. 303BB—Black and Brass		$5.75 3.50
No. 303BN—Black and Nickel		5.75 3 50
	Diameter 4 inches	Each
No. 304BB—Black and Brass		$7 50 4 50
No. 304BN—Black and Nickel,		7.50 4 50

Loose; Weight 1½ lbs.

	Each	
No. 313BB—Black and Brass; Diameter 3¾ inches	$5 00	3 00
No. 313BN—Black and Nickel; Diameter 3¾ inches	5.00	3.00

Loose, Weight 1½ lbs.

	Each	
No. 323BB Black and Brass; Diameter 3 inches, Length 4 inches	$4 30	2 50
No. 323BN—Black and Nickel, Diameter 3 inches; Length 4 inches	4.30	2 50

Loose; Weight 1½ lbs

AUTOMOBILE LAMPS

GAS HEADLIGHT

Entire Lamp Drawn from One Piece of Heavy Steel, Equipped with Genuine Fry Fire Test Silvered Reflector; Height 10 inches, Diameter of Front 10 inches; Made for Round Props; Top Hood Brass or Nickel to Match Trim of Lamp. This is a Splendid Lamp at a Moderate Price

	Per Pair
No. 68RB Black and Brass	$19 80
No. 68BN Black and Nickel	19 80

Weight per Pair 11 lbs.

OIL SIDE LAMPS

This is an Exceedingly Substantial Light. Drawn from Heavy Metal. Entire Inside Silver Lined. With Large and Powerful Reflectors. Has Round Front Lens and Square Side Lens. Fits Either Round or Flat Brackets. By Turning Two Levers the Entire Bottom Mount can be Instantly Removed from the Lamp. This is a Gracefully Shaped and Beautiful Looking Lamp at a Moderate Price. Height Over All 11 inches, Diameter 5x5 inches.

	Per Pair
No. 45RR—Black and Brass	$8 80
No. 45BN Black and Nickel	8 80

Weight per Pair 6 lbs.

OIL TAIL LAMPS

This Lamp we are Putting out to Meet the Demand for a Low Priced Tail Lamp. One that will Answer the Purpose and at the Same Time be Inexpensive; Height 8 inches, Size Body 4x5 inches; Has Red Rear Lens and White Side Lens.

	Each
No. DBB Black and Brass, Weight 1½ lbs	$2 75

GAS HEADLIGHT

This Headlight We put out to Meet Competition and for the Person who Desires a Reliable Lamp at a Low Price. The Body is Formed of Three Pieces of Heavy Metal. Equipped with Fine Test Silver Reflector 8 inches in Diameter, Diameter of Front 8½ inches. Diameter of Body of Lamp 6¾ inches. Made for Round Props. This Lamp is Finely Enameled and Well Made Throughout

	Per Pair
No. 10BB—Black and Brass	$13 20
No. 10BN—Black and Nickel	13 20

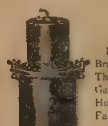
Weight per Pair 8 lbs

OIL TAIL LAMPS

This Lamp is Drawn from Heavy Metal, is Strong and Substantial and will Withstand the Jar and Vibration Encountered on the Tail End of a Car. Has 3¼ Inch Red Rear Lens and 3¼ Inch White Side Lens to Throw Light on License Number. Oil Fount can be Instantly Removed from the Lamp by Simply Turning Two Levers. Inside of Lamp Silver Plated. This is a High Grade and Well Built Tail Lamp that we Sell at a Moderate Price. Height Over All 11 inches. Diameter 5x5 inches.

	Each
No. 46BB Black and Brass	$4 40
No. 46BN Black and Nickel	4 40

Weight 3 lbs.



GAS GENERATORS

Drawn from Seamless Brass; Body Fastened to Cast Brass Base. Galvanized Carbon Container. Heavy Thumb Bolts Hold Two Sections Together. Rubber Gasket Between Sections Keeps Gas from Escaping. Height 13¾ inches, Diameter of Body 7 inches. Base Fastened to Running Board by Means of Three Bolts or Screws.

	Each
No. 50BE—Black Enameled	$7 70

Loose; Weight 6 lbs.

LAMP COVERS

FOR HEADLIGHTS

Made of Waterproof Rubber Drill, will Fit all Head Lights and Protect them from the Weather. Per Doz.

No. 1LC—For Lamps with 6 to 8 inch Glass $13 20

No. 2LC—For Lamps with 8 to 10 inch Glass 13 20

No. 3LC—For Lamps with 10 to 12 inch Glass. 13 20

Two in a Box, Weight per Box 1 lb.

FOR SIDE AND TAIL LIGHTS

Made of Waterproof Rubber Drill

	Per Dozen
No. 4LC For Lamps up to 12 inches High	$8 80
No. 5LC—For Lamps 12 to 15 inches High	8 80
No. 6LC—For Lamps 15 to 18 inches High	8 80

Two in a Box; Weight per Box 1 lb.

LAMP BRACKETS

TAIL

No. 11—Solid Cast Brass; Highly Polished; Weight ¾ lb. Each $0 90

Loose

TAIL—TO SCREW IN

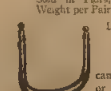
No. 45A—Brass Plated, Projects 4 inches; has 1¾ Inch Screw, Weight 7 ozs. Each $1.40

Loose

SIDE

No. 8—Solid Cast Brass; Highly Polished, Sold in Pairs, Right and Left, Weight per Pair 2 lbs Per Pair $2 65

Loose

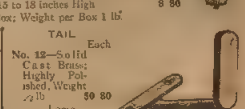


HEADLIGHT

Drop Forged Steel; Arm can be Forged into any Shape or Size Desired or Welded to Other Attachments.

	Each
No. 7½ 7¾ inch Centers	$1 65
No. 8¾ 8½ inch Centers	1.85

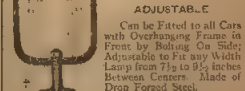
Weight about 3 lbs. Loose



TAIL

No. 12—Solid Cast Brass; Highly Polished, Weight ¾ lb Each $0 80

Loose



ADJUSTABLE

Can be Fitted to all Cars with Overhanging Frame in Front by Bolting On Side; Adjustable to Fit any Width Lamp from 7½ to 9½ inches Between Centers. Made of Drop Forged Steel.

	Each
No. 2684A—With 1¾ inch Post, Weight 2 lbs	$1 35
No. 2684B—With 4 inch Post; Weight 3 lbs.	1.95

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

ELECTRIC AUTOMOBILE LAMPS

ELECTRIC HEAD LIGHT

Perfect Parabola Shape, made of One Piece of Heavy Drawn Steel; Silver Plated Reflectors; Inside Focusing Device; 18 CP 6 Volt Mazda Bulb with Ediswan Socket, made to fit Round Props, Outside Diameter 11 in.; Depth 8 in. This is a High Grade and Finely made Lamp.

	Per Pair
No. 6SBB—Black and Brass	$25.80
No. 6SBN—Black and Nickel	26.40

Weight per Pair 11 lbs.

ELECTRIC SIDE LIGHTS

Can also be Used as Head Lamps on Small Cars

Perfect Parabola Shape; Made of One Piece of Heavy Drawn Brass; Silver Plated Reflectors; Focus can be regulated to suit the requirements of the User. 6CP 6 Volt Mazda Bulb with Ediswan Socket; made to fit either Round or Flat Brackets. Outside Diameter 6¼ in. Depth 4½ in. This is an extremely Fine Looking and attractive Lamp

	Per Pair
No. 63BB—Black and Brass	$16.50
No. 63BN—Black and Nickel	17.60

Weight per Pair 3½ lbs.

ELECTRIC TAIL LAMP

Water and Dust Tight

Pressed from One Piece of Solid Metal; has 3 inch Red Lens in Rear and 2¼x1¾ inch White Side Lens. The Ediswan Socket screws in from the Bottom. 2CP 6 Volt Mazda Bulb. Made to be used on either Flat or Round Brackets. This is one of the neatest and most satisfactory Electric Tail Lights on the market.

	Each
No. 78BE—Black Enameled; Wt. 1 lb.	$5.40

Loose.

ELECTRIC LAMP REFLECTORS

Perfect Parabola Shaped, made of Heavy Brass, Silver Plated; Designed to be Fastened to Inside of Lamp Door, but may be placed in the Lamp itself if preferred. Each Reflector Wired and fitted with Ediswan Base Socket and Short Wire with Connector attached at End. Bulbs not Included.

	Each
No. 7LR—Diameter over all 7 in.	$2 20
No. 8LR Diameter over all 8 in.	2.65
No. 9LR Diameter over all 9 in.	3.00
No. 10LR—Diameter over all 10 in.	3.30

Loose; Weight 1 lb.

LAMP MIRRORS

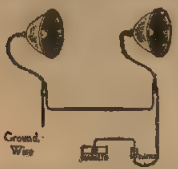
GENUINE FRY GROUND LENSES

This is an Extra Fine High Grade Mirror

	Each
No. 5M—5 inch	$1.65
No. 6M—6 inch	2.00
No. 7M—7 inch	3.00

Loose.

FORD LIGHTING OUTFITS



This is a complete Outfit wired up and ready to put in a Ford Car to convert it from a Gas to an Electric Lighted Car. The Magneto furnishes the Current; Storage Battery is unnecessary. The Outfit consists of Two Parabolic Reflectors with Ediswan Sockets and Connectors Two 6 Volt 12CP Tungsten Lamps; One Switch; Four Metal Straps and the necessary Wire Cable

	Each
No. 8FLO—With 8 inch Reflectors	$7.70
No. 9FLO—With 9 inch Reflectors	7.70

One Set in a Box, Weight 4 lbs.

TROUBLE LAMPS

EVER READY

For Use Around Automobile Garage, etc; Comes Equipped with 6 Volt Mazda Bulb and 12 Feet of Cord, Clips at End of Cord for Making Quick Connections.

	Each
No. ETL—Weight 1 lb. One in a Box	$2.20

POMO

This is the Neatest, Best Looking and most Serviceable Trouble Lamp on the Market. Hangs from your Button Hole, your Hat, Car Dash. Goes inside your Motor or any old place around the Car. Can be carried in the Coat Pocket.

	Each
No. PTL—Complete with 6 Volt 4CP Candelabra Base Bulb; 12 Feet of Lamp Cord with Ediswan Connector attached; packed in a Green Plush Bag; Weight 4 ozs.	$3.85

LAMP ATTACHMENTS

For Converting Oil and Gas Lamps into Electric Lamps.

Price Does Not Include Bulbs

FOR OIL LAMPS

Made of Brass, Folds Down and Locks in a Horizontal Position When Use of Oil Lamp is Desired. Fits on Outside of Burner Cap; Furnished with Fibre Socket, Wired and Equipped for Standard Candelabra Base Bulbs.

	Per Dozen
No. OLA—Weight 1 oz.	$5 30

Loose

FOR GAS LAMPS

Made of Brass; Nickel Plated, Fits on Post of Gas Burner with Adjustable Bolt can be Instantly Shifted in or Out of Position; Furnished with Fibre Socket Wired and Equipped for Standard Candelabra Base Bulbs.

	Per Dozen
No. GLA—Weight 1 oz.	$5 30

Loose

ADJUSTABLE IRON PLANES

STANLEY'S RABBET AND BLOCK.

Each

No. 140—7 in. Long, 1¾ in. Cutter, Rosewood Knob, with Detachable Side, Nickel Plated Trimmings **$2.00**

The Detachable Side will easily change this Tool from a Block Plane to a Rabbet Plane, or vice versa. The Cutter is set on a skew and is adjustable endwise

Weight Each 1 Pound
One in a Box

STANLEY'S BULL NOSE RABBET

Each

No. 75—4 in. Long, 1 in. Cutter, Japanned Trimmings **$0.50**

Very useful for working close up into corners or other difficult places. The mouth can be adjusted for different widths by means of the set screw on top of the plane

Weight Each ⅝ Pound
One in a Box

STANLEY'S SIDE RABBET

Each

No. 98—4 in., Right Hand, ½ in. Cutter, Nickel Plated Rosewood Knob **$1.50**

Each

No. 99—4 in., Left Hand, ½ in. Cutter, Nickel Plated, Rosewood Knob **$1.50**

A convenient Tool for Side-rabbeting and trimming Dados, Mouldings and Grooves of all sorts. A Reversible Nose-piece will give the Tool a form by which it will work close up into corners when required.

Weight Each ½ Pound
One in a Box

STANLEY'S LOW ANGLE JACK

Each

No. 62—14 in. Long, 2 in. Cutter, Adjustable Throat, Japanned Trimmings, Rosewood Handle and Knob, Endwise Screw Adjustment **$4.00**

Especially adapted for use in cutting across the grain on heavy work, where more power is required than can be obtained by the use of the ordinary block plane. The adjustable throat allows opening or closing of the mouth, as coarse or fine work may require.

Weight Each 3½ Pounds
One in a Box

STANLEY'S CARRIAGE MAKERS' RABBET

Each

No. 10½—9 in. Long, 2⅛ in. Cutter, Rosewood Handle and Knob, Weight Each 3 Lbs. **$3.50**

No. 10—13 in. Long, 2⅛ in. Cutter, Rosewood Handle and Knob, Weight Each 4¼ Lbs. **4.20**

Especially designed for heavy work and framing and will be found to be an excellent tool for a wide variety of work. The Cutter is of the Double Cutter type, and is adjustable endwise and laterally.

One in a Box

STANLEY'S CABINET MAKERS' EDGE

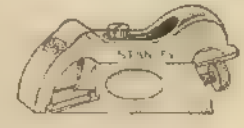
Each

No. 97—10 in. Long, 2⅛ in. Cutter, Rosewood Knob, Endwise Screw Adjustment **$3.00**

For all Piano Makers and all Cabinet Workers. Has a cutter resting on a solid bed practically its entire length. The cutting edge is located at the extreme end of the plane. No other plane can be worked in such a small space or so close up into corners.

Weight Each 4 Pounds
One in a Box

STANLEY'S CABINET MAKERS' RABBET



Each

No. 90—4 in. Long, 1 in. Cutter, Nickel Plated, Adjustable Throat, Endwise Screw Adjustment, Weight Each 1 Lb. **$3.30**

Each

No. 93—6½ in. Long, 1 in. Cutter, Nickel Plated, Adjustable Throat, Endwise Screw Adjustment, Weight Each 1¾ Lbs. **$3.50**

Adapted for fine cabinet or other work where extreme accuracy is required. The sides and bottom being square with each other, the plane will lie perfectly flat on either side and can be worked with either right or left hand.

No. 90 Plane is of the Bull Nose pattern so that it can be used close up into corners or other difficult places.

One in a Box

ADJUSTABLE IRON PLANES

STANLEY'S ADJUSTABLE CIRCULAR

Each

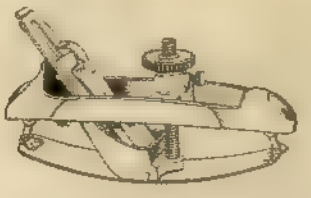
No. 113—10 in. Long, 1⅝ in. Cutter, Flexible Steel Face, Japanned Stock, with Graduated Scale for Setting the Face.....**$4.00**

A very superior Tool as by means of the graduated scale on the gears, the flexible face can be accurately set to work on an arc of the same circle, both concave and convex, by turning the Knob on the front of the Plane. The Cutter is adjustable endwise and laterally

Weight Each 3½ Pounds

One in a Box

VICTOR ADJUSTABLE CIRCULAR



Each

No. 20—10 in Long, 1¾ in. Cutter, Flexible Steel Face, Nickel Plated Stock.....**$5.46**

Designed with the object of eliminating any lost motion due to wear. There are less parts subject to lost motion in this Plane than in any other Circular Plane made. The end of the Flexible Steel Bottom being fixed, and the force applied at the center, great accuracy of adjustment is possible and the Face is most firmly held in position. The Cutters are adjustable endwise and laterally

Weight Each 4 Pounds

One in a Box

STANLEY'S SPECIAL FLOOR

Each

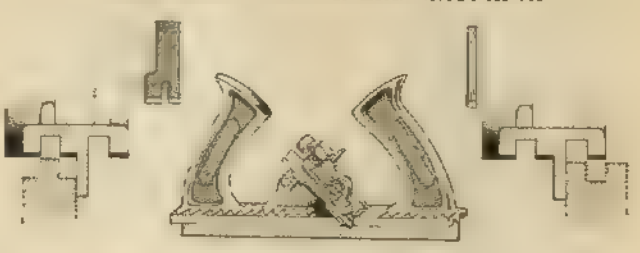
No. 11½—7 in. Long, 2⅜ in. Cutter, Japanned Stock, Hardwood Handle, Endwise Screw Adjustment **$5.00**

Designed for working from a kneeling position, the double handle making it an easy tool to work under such conditions. It is fitted with an adjustable throat, permitting a wide or narrow mouth, according as coarse or fine work requires.

Weight Each 4 Pounds

One in a Box

STANLEY'S DOUBLE END MATCHING



Iron Handles and Body, Nickel Plated

Each

No. 147—Cuts ⅜ in. Groove on ½ to ¾ in Boards, Centers on ⅝ in., Weight Each 2 Lbs. .**$3.00**

No. 148—Cuts ¼ in. Groove on ⅝ to 1 in. Boards, Centers on ⅞ in., Weight Each 2½ Lbs. **3.00**

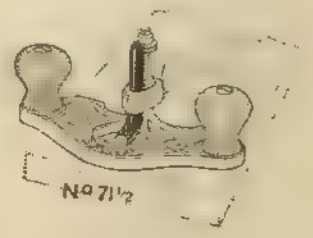
These Planes have two separate cutters, a plow and a tongue tool, both governed by one permanent fence. The tongue tool has one edge wider than the other, which overhangs one side when tonguing on center. Both tongue and groove are cut by working the tool in the same direction, by merely reversing it end for end.

One in a Box

STANLEY'S WOOD WORKERS' ROUTER

Each

No. 71—7½ in. Long, Open Throat, Nickel Plated, ¼ and ½ in. Cutters, Complete with Two Attachments, One for Regulating the Thickness of the Chip, the Other for Closing the Throat for Use on Narrow Surfaces, Weight Each 2½ Lbs.....**$2 80**



Each

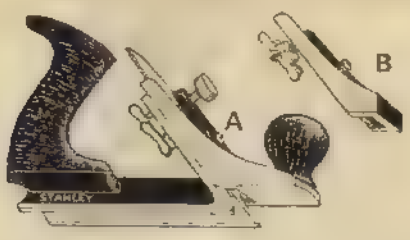
No. 71½—7½ in. Long, Closed Throat, Nickel Plated, ¼ and ½ in. Cutters, the Ordinary Form of Router Plane, Weight Each 2 Lbs. **$2 10**

These Planes are for surfacing the bottom of grooves or other depressions parallel with the general surface of the work. The bottoms of both styles are designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on large openings. The cutters have screw adjustment, and can be held as shown in above illustrations, or on the back of the cutter post, for bull-nose work.

One in a Box

ADJUSTABLE IRON PLANES

STANLEY'S ADJUSTABLE CHAMFER



Each

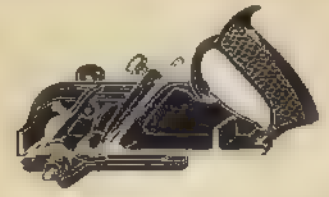
No. 72—9 in. Long, 1⅝ in. Cutter, Rosewood Handle and Knob **$2.70**

This Plane will do perfect chamfer or stop-chamfer work. It has a ninety degree V bottom which acts as a mitre guide. To this is attached an adjustable front, "A," having a flat bottom which carries the cutter; this front can be set for different sizes of chamfer. Front "A" can be readily detached and a bull-nose front "B" (furnished with this plane) substituted, permitting the plane to be worked close up into corners

Weight Each 3½ Pounds

One in a Box

STANLEY'S DUPLEX, FILLETSTER AND RABBET



Japanned Iron Stock, with Spur and Detachable Depth Gauge

Each

No. 78—8½ in. Long, 1½ in. Cutter..... **$2 20**

This Plane has two seats for the cutter, one for regular work and the other where a bull-nose is required The adjustable fence can be used on either side and slides under the bottom, regulating the width of the cut. To work same as a rabbet plane, remove fence and arms

One in a Box

STANLEY'S IMPROVED DADO

Japanned Iron Stock, 8 in. Long, with Skew Cutters, Adjustable Depth Gauge and Two Adjustable Spurs

Nos.	39½	39⅝	39¾	39⅞	39—1
Cutter, Inches	½	⅝	¾	⅞	1
Weight Each, Lbs.	1¾	2	2	2¼	2¼
Each	$2.40	2.40	2.40	2 40	2.40

The great advantage of these Dado Planes over those of wood is that they will keep true under all conditions even in the narrowest widths. They have skew cutters, an adjustable depth gauge and two adjustable spurs, one on each side of the Plane. This adjustable feature permits of the spurs being adjusted to take up wear, as well as for the depth of the cut

One in a Box

STANLEY'S IMPROVED RABBET

Japanned Iron Stock, 8 in. Long, with Spur and Detachable Depth Gauge

Each

No. 190—1⅛ in. Cutter, Weight Each 2½ Lbs. **$1 70**
No. 191—1¼ in. Cutter, Weight Each 2¼ Lbs.. 1.70
No. 192 -1 in Cutter, Weight Each 2 Lbs.. 1.70

These Planes will lie perfectly flat on either side and can be used equally as well with right or left hand while planing into corners or up against perpendicular surfaces

One in a Box

STANLEY'S SKEW CUTTER FILLETSTER AND RABBET

Each

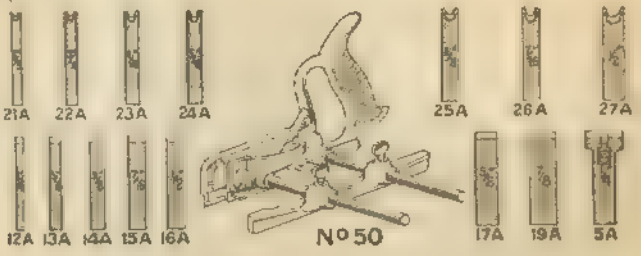
No. 280 8½ in. Long, 1¾ in. Cutter, Japanned Iron Stock **$2 70**

This Plane has an extra wide skew cutter. An adjustable spur is fitted to each side. The fence and depth gauge can be attached to either side; the plane is therefore suitable for right or left hand work. The adjustable fence slides under the bottom, regulating the width of the cut. Remove arms and fence, and a Skew Cutter Rabbet Plane is obtained

Weight Each 3¾ Pounds

One in a Box

STANLEY'S COMBINED PLOW, BEADING AND MATCHING



Nickel Plated Stock and Fence

Each

No 50 9¼ in. Long, Complete with 15 Cutters. **$6 00**

The Cutters comprise 7 plow and dado bits, one each ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾ in.; 7 beading tools, one each ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ in.; and a ¾ in. tonguing tool

A very handy tool for light work. It consists of a main stock, carrying a spur and a depth gauge, forming a support for one side of the cutter; a sliding section, carrying a spur and forming a support for the other side of the cutter and a fence with a 5 in. adjustment.

Weight Each 3½ Pounds

One in a Box

ADJUSTABLE IRON PLANES

STANLEY'S PLOW, DADO, FILLETSTER AND MATCHING

Each

No. 46 -10½ in. Long, Nickel Plated Stock and Fence, Rosewood Handle and Knob, Complete with 11 Cutters $7 00

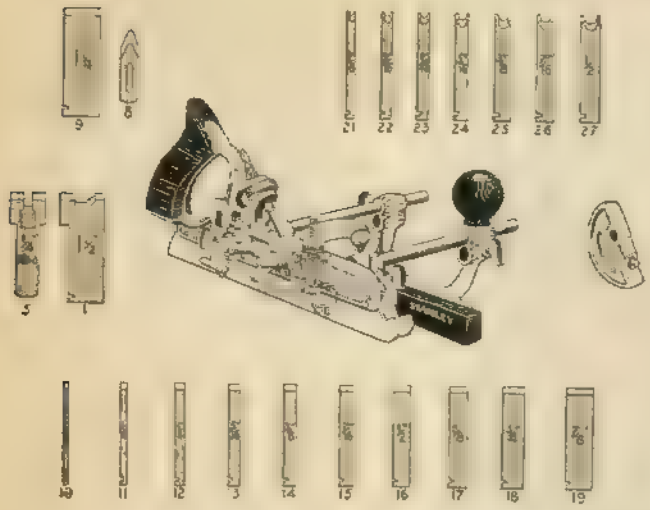
The Cutters comprise 8 plow and dado bits one each ⅛, ¼, 5/16, ⅜, ½, ⅝, ¾ and 1¼ in ; a 1½ in. filletster cutter; a ¼ in. tonguing tool and a slitting cutter.

Skew Cutters are the feature of this plane It consists of a main stock carrying a spur, a depth gauge and a slitting cutter, a sliding section carrying a spur forming an extra sole for the plane and a fence with rosewood face which can be set for either plow or filletster work

Weight Each 6 Pounds

One in a Box

STANLEY'S "FORTY-FIVE"



Seven Tools in One in Compact and Practical Form

Each

No. 45—10 in. Long, Nickel Plated Stock and Fence, Rosewood Handle and Knob, Complete with 21 Cutters as Described Below $11 50

Weight Each 9½ Pounds

One in a Neat Steel Box, Complete with Cutters

This Plane embraces in a compact and practical form (1) beading and center beading plane; (2) plow; (3) dado; (4) rabbet and filletster; (5) match plane; (6) sash plane; (7) slitting plane.

Each Plane is accompanied by seven beading tools (⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ in.), ten plow and dado bits (⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ and ⅞ in.), a filletster, slitting, match and sash tool; twenty-one tools in all.

The Plane is fitted with spurs for use across the grain, etc., and can be used either right or left hand

CAM REST

For beading at a distance from the edge of a board, attach Cam Rest (see cut at right of plane) to the front arm between the sliding section and fence to prevent the fence sagging In certain work attach same to the rear arm to prevent the plane from rocking

STANLEY'S HOLLOWS AND ROUNDS

For Use on No. 45 Plane Only

Japanned Cast Iron, Polished Faces, Steel Set Screws, Complete with Cutters

Nos.	6	8	10	12
Width of Cutters, Inches	½	⅝	¾	1
Work Circle, Inches	¾	1	1¼	1½
Per Pair	$1.40	1.40	1.50	1.50

A pair consists of One Hollow, One Round and Two Cutters A Hollow and its Cutter will form a **ROUND** on the moulding being worked. A Round and its Cutter will form a **HOLLOW.**

STANLEY'S NOSING TOOL

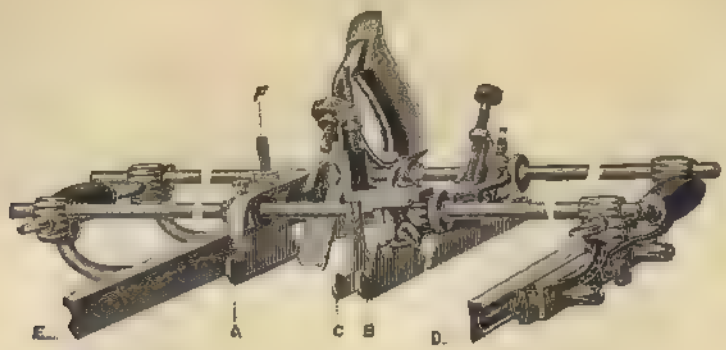
Each

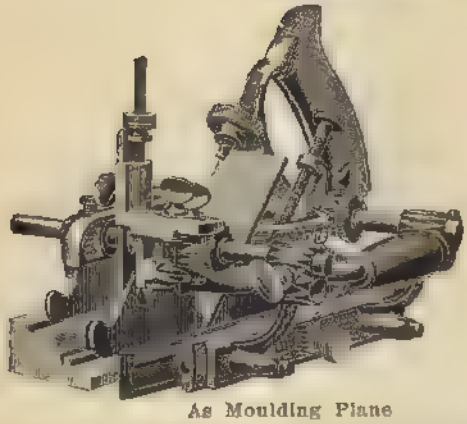
No. 5 Japanned Cast Iron Body with Polished Face, Steel Set Screws 1¼ in Cutter Works 1¼ in. Circle, for Use on No. 45 Plane Only..... $1.00

A Nosing Tool and its Cutter will form what might be called an exaggerated Round. Used for shaping the edges of stair treads.

ADJUSTABLE IRON PLANES

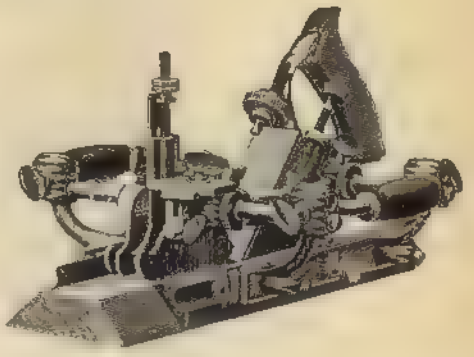
STANLEY "FIFTY-FIVE"





As Moulding Plane

Cam Rest.



As Chamfer

This Tool in the Hands of an Ordinary Carpenter will do all the Fancy Cutting that a Full Assortment of So-called Fancy Planes will do — Each

No. 55—10 in. Long, Nickel Plated, Rosewood Handles and Ferrules, Complete with 52 Cutters as Described and Illustrated Below, Weight Each 15 Lbs. $22 00

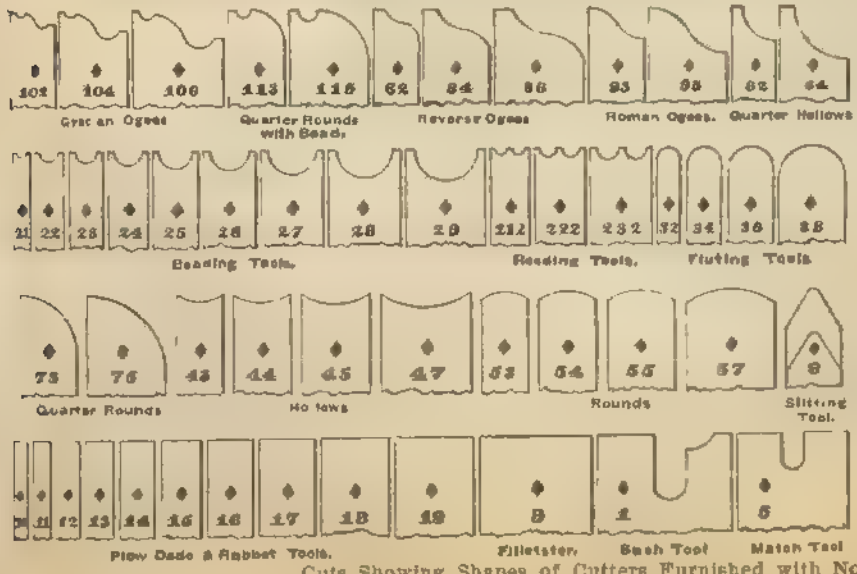
One in a Neat Steel Box, Complete with Cutters

This Tool, in addition to being a Beading and Center Beading Plane, a Plow, Dado, Rabbet, Filletster, Match Plane, Sash Plane and a Slitting Plane is also a Superior Moulding Plane, and will accommodate Cutters of almost any shape and size

The Following Cutters are Furnished with Each Plane:

One 1½ in. Sash Tool, One ¼ in. Match Tool, One Slitting Tool, One 1¼ in. Filletster; Ten Plow and Dado Tools (⅛, ³⁄₁₆, ¼, ⁵⁄₁₆, ⅜, ⁷⁄₁₆, ½, ⁹⁄₁₆, ⅝ and ¾ in.), Nine Beading Tools (⅛, ³⁄₁₆, ¼, ⁵⁄₁₆, ⅜, ⁷⁄₁₆, ½, ⅝ and ¾ in.) Four Fluting Tools (¼, ⅜, ½ and ¾ in.) Four Hollows (½, ⅝, ¾ and 1 in.); Four Rounds (½, ⅝, ¾ and 1 in.); Two Quarter Hollows (½ and ¾ in.), Two Quarter Rounds (⅜ and ⅞ in.); Three Reverse Ogees (½, ¾ and 1 in.), Two Roman Ogees (⅝ and ⅞ in.), Three Grecian Ogees (½, ¾ and 1 in.), Two Quarter Rounds with Bead (⅝ and ⅞ in.); Three Reeding Tools with Two Beads (⅛, ³⁄₁₆ and ¼ in.)

The Plane is fitted with spurs for working across the grain and a special Cam Rest, to be located on the front arm when working at a distance from the edge of the board, to keep the fence from sagging, or on the rear arm on certain work, to prevent the possibility of the plane rocking. All parts are interchangeable.



Cuts Showing Shapes of Cutters Furnished with No. 55 Plane

ADJUSTABLE IRON PLANES

STANLEY'S COMBINATION DOVETAIL TONGUE AND GROOVE

Each

No. 441—9 in. Long, Nickel Plated, Complete with Three Sizes of Cutters for Forming Grooves, the Smaller Size for ½ and ⅝ in., the Middle Size for ¾ and ⅞ in., and the Largest Size for 1 to 2 in. Boards...$9.00

This novel tool accomplished a result sought for many years by wood workers in general, namely, to form a dovetailed tongue and groove with one hand tool.

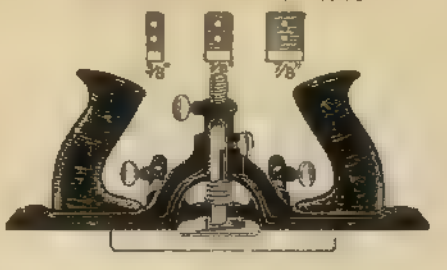
It will cut any size grooves and tongues to fit with sides at flare of 20 degrees, where the width of the neck is more than one-quarter of an inch and the depth of groove not more than three-quarter of an inch The tongue and groove are cut separately, and can be made with parallel or tapering sides.

The cut on the left shows the Plane assembled for cutting the tongue, and that on the right the Plane assembled for cutting the groove. All parts are carefully machined and are interchangeable. The operation of the Plane is simple

Weight Each 6 Pounds

One in a Box

STANLEY'S DOOR TRIM



Each

No. 171—9 in. Long, Japanned Stock, Rosewood Handles, Complete with Three Forged Steel Cutters, ⅜, ⅝ and ⅞ in. Wide .$4 00

This Plane will make mortises for butts, face plates, strike plates, escutcheons, etc., up to a depth of ⅛ in., and a width of 3 in. Its original feature is the method of mounting the cutter, which can be instantly set to work from either end of the Plane or across it. In addition, the cutter is cushioned by a spring which prevents taking a heavier chip than can be easily carried. A fence regulates the position of the cut and insures the sides of the cut being parallel. The depth of the cut is governed by a positive stop

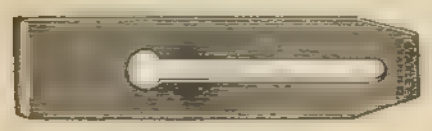
By removing the fence and locking the cutter post with the thumb screw instead of using the spring a very superior Router Plane is obtained. The bottom is designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to router on large openings

Weight Each 3 Pounds

One in a Box

PLANE IRONS

SINGLE



Stanley's and Bailey's

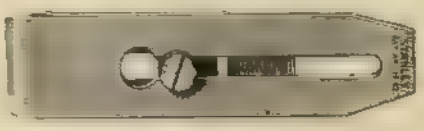
Width, Inches	1⅛	1⅝	1¾	2
Wt. Per Dozen, Lbs..	1¼	2¼	2½	3¼
Per Dozen	$3 60	4 80	5 40	5 50
Width, Inches	2⅛	2¼	2⅜	2⅝
Wt. Per Dozen, Lbs..	3½	3¾	4	4½
Per Dozen	$6 00	6.50	7 20	7.20

White's Single

Width, Inches	2	2¼	2½
Per Dozen	$6.00	7.00	9 00

For all Iron and Wood Bottom Bench Planes

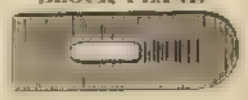
DOUBLE



Stanley's and Bailey's

Width, Inches	1⅝	1¾	2	2⅛
Wt. Per Dozen, Lbs.	3¾	4¾	5¾	6
Per Dozen	$8 20	8.80	9 80	10 50
Width, Inches		2¼	2⅜	2⅝
Weight Per Dozen, Lbs.....		7	7½	8
Per Dozen		$11 00	11 00	11 50

BLOCK PLANE



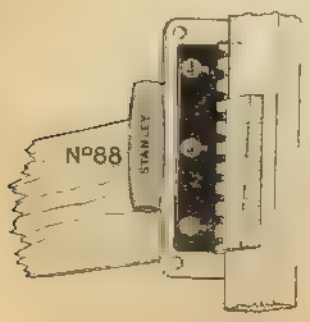
Per Dozen

No. 9½—1⅝ in., for Nos 9½, 18 and 19 Bailey Block Planes $3 50

Note—Always Give Name of Plane When Ordering

One-half Dozen in a Box

CLAPBOARD MARKERS



STANLEY'S

Per Dozen

No. 88—8¾ in Long, 4 in. Wide, Nickel Plated Iron Frame, Blued Tool Steel Marker Blade, Hardwood Handle, Weight Per Dozen 10 Lbs $9 60

One twelfth Dozen in a Box

CLAPBOARD GAUGES

STANLEY'S

Per Dozen

No. 89—8¾ in. Long, 2½ in. Wide, Nickel Plated Iron Frame, Gauge Graduated 8ths, Hardwood Handle, Weight Per Dozen 6 Lbs... $9.60

One-quarter Dozen in a Box

POCKET KNIVES.

GEO. WOSTENHOLM & SONS' I. X. L. BRAND.

Extra Quality English Crucible Steel Blades, Highly Tempered, SHARPENED READY FOR USE.

FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File, Full Polished; German Silver Bolsters; Brass Lining.

No. X10580—3 IN. PEARL HANDLE.....Per Dozen, $38.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Full Polished; Brass Lining.

No. X2045—3¾ IN. PEARL HANDLE.....Per Dozen, $36.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Shield; Brass Lining.

No. X2118—3½ IN. PEARL HANDLE.....Per Dozen, $32.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; German Silver Shield; Brass Lining.

No. X9258—2¾ IN. PEARL HANDLE.....Per Dozen, $31.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolsters; Brass Lining.

No. X2138—3 IN. PEARL HANDLE.....Per Dozen, $29.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.

No. X3805—2⅞ IN. PEARL HANDLE.....Per Dozen, $27.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.

No. X2004—3¼ IN. PEARL HANDLE.....Per Dozen, $27.50

TWO BLADES, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X2100—3 IN. PEARL HANDLE.....Per Dozen, $22.50

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; Brass Lining.

No. X2092—2½ IN. PEARL HANDLE.....Per Dozen, $19.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips; Brass Lining.

No. X2004—3¼ IN. STAG HANDLE.....Per Dozen, $16.00

No. X2017.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.

Per Dozen

No. X2017—3¼ IN. BUFFALO HORN HANDLE.....$14.50

No. X2018—3¼ IN. IVORY HANDLE.....14.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.

No. X2060—3¼ IN. STAG HANDLE.....Per Dozen, $14.50

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Brass Lining.

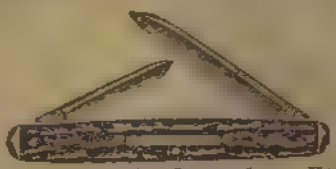
No. X2061—3¼ IN. STAG HANDLE.....Per Dozen, $18.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; Brass Lining.

No. X2015—3¼ IN. IVORY HANDLE.....Per Dozen, $18.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X2118—3½ IN. STAG HANDLE.....Per Dozen, $22.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Shield; Brass Lining.

No. X14422—3¼ IN. GENUINE STAG HANDLE..Per Dozen, $27.50

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Tips and Shield; Brass Lining.

No. X14426—3¼ IN. GENUINE STAG HANDLE..Per Dozen, $34.00

FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File, Full Polished; German Silver Tips and Shield; Brass Lining.

No. X14270—3¼ IN. GENUINE STAG HANDLE.....Per Dozen, $35.50

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; German Silver Bolsters; Brass Lining.

No. X16472—3¼ IN. GENUINE STAG HANDLE..Per Dozen, $26.50

One-half Dozen in a Cardboard Box; Weight per Dozen about 1¼ lbs.

POCKET KNIVES.

GEO. WOSTENHOLM & SONS' I. X. L. BRAND.
Extra Quality English Crucible Steel Blades, Highly Tempered, SHARPENED READY FOR USE.

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; German Silver Bolsters and Shield; Brass Lining

No. X17065—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $28.00

FOUR BLADES, 1 Large Spear Point, 3 Pens and 1 File, Glazed Finish; German Silver Bolsters; Brass Lining.

No. X17039—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $25.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; German Silver Bolsters and Shield, Brass Lining.

No. X17023—3¼ IN GENUINE STAG HANDLE..Per Dozen, $26.50

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; German Silver Bolsters and Shield; Brass Lining

No. X17024—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $30.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X17068—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $32.00

TWO BLADES, 1 Large Wharncliffe and 1 Pen, Full Polished German Silver Bolsters and Shield; Brass Lining.

No. X14079—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $26.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; German Silver Bolsters and Shield; Brass Lining.

No. X2241—3¾ IN. STAG HANDLE.....Per Dozen, $19.00

PRUNING AND BUDDING.

TWO BLADES, 1 Pruning and 1 Budding Full Polished; Polished Steel Rat-tail Bolsters; German Silver Shield; Brass Lining.

No. X8049—4 IN. GENUINE STAG HANDLE.....Per Dozen, $27.50

TWO BLADES, 1 Large Clip Point and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters; German Silver Shield; Brass Lining.

No. X2240—3¾ IN. STAG HANDLE.....Per Dozen, $19.00

THREE BLADES; 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; Polished Steel Rat-tail Bolsters; German Silver Shield; Brass Lining.

No. X17020—3¾ IN. STAG HANDLE..... ..Per Dozen, $25.00

THREE BLADES, 1 Large Clip, 1 Pen and 1 File, Glazed Finish; Polished Steel Rat-tail Bolsters; German Silver Shield; Brass Lining.

No. X17021—3¾ IN. STAG HANDLE.....Per Dozen, $25.00

THREE BLADES, 1 Large Clip, 1 Small Clip and 1 Pen, Glazed Finish, German Silver Bolsters and Shield; Brass Lining.

No. X2407—3½ IN. STAG HANDLE; Per Dozen $25.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Glazed Finish; German Silver Bolsters; Brass Lining.

No. X17027—4¼ IN. GENUINE STAG HANDLE.....Per Dozen, $30.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Glazed Finish; German Silver Bolster, Shield and Lining.

No. X15202—4¼ IN GENUINE STAG HANDLE.....Per Dozen, $31.00

TWO BLADES, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X2153—3¼ IN. GENUINE STAG HANDLE.....Per Dozen, $13.50

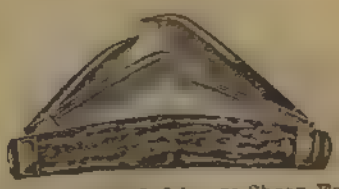
One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

— 1963 —

POCKET KNIVES.

GEO. WOSTENHOLM & SONS' I. X. L. BRAND.

Extra Quality English Crucible Steel Blades, Highly Tempered SHARPENED READY FOR USE



FOUR BLADES, 1 Large Sheep Foot and 2 Pens, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X2101—3⅛ IN. STAG HANDLE. Per Dozen $24.00

FOUR BLADES, 1 Large Sheep Foot, 2 Pens and 1 File, Glazed Finish; Polished Steel Rat-tail Bolsters, Brass Lining.

No. X2161—3¾ IN. STAG HANDLE, Per Dozen $27.00

TWO BLADES, 1 Large Steel Pen and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters, Brass Lining.

No. X2154—3¾ IN. GENUINE STAG HANDLE ..... Per Dozen, $14.50

FOUR BLADES, 1 Large Sheep Foot, 1 Tobacco and 2 Pens, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X17035—3¾ IN. STAG HANDLE ..... Per Dozen, $25.00

FOUR BLADES, 1 Large Sheep Foot, 1 Tobacco and 2 Pens, Glazed Finish, German Silver Bolsters; Brass Lining.

No. X17037—4⅛ IN. STAG HANDLE. ..... Per Dozen, $30.00

ONE LARGE SPEAR BLADE, Polished Steel, Rat-tail Bolster; Steel Lining; Lock Back.

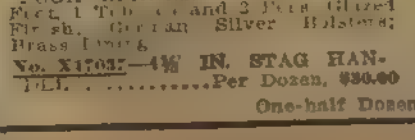
No. X17003—4⅝ IN. STAG HANDLE....Per Dozen, $16.00

TWO BLADES, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X2170—4 IN. STAG HANDLE, Per Dozen $17.00

FOUR BLADES, 1 Large Sheep Foot, 1 Tobacco and 2 Pens, Glazed Finish; Polished Steel Rat-tail Bolsters; Brass Lining.

No. X2182—4 IN. STAG HANDLE Per Dozen $20.00



FOUR BLADES, 1 Large Sheep Foot, 1 Tobacco and 2 Pens, Full Polished, Polished Steel Rat-tail Bolsters, German Silver Shield, Brass Lining.

No. X2194—4⅛ IN. GENUINE STAG HANDLE ..... Per Dozen, $30.00

NO. 1 LARGE SPEAR POINT BLADE, Full Polished; Polished Steel Bolster; Steel Lining; Lock Back.

No. X17015—4⅛ IN. STAG HANDLE....Per Dozen, $18.00

PHYSICIANS'.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished, Polished Steel Bolster, German Silver Cap; Brass Lining.

No. X17005—4⅛ IN. STAG HANDLE....Per Dozen, $24.50

CATTLE KNIFE.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Glazed Finish, German Silver Bolsters and Shield, Brass Lining.

No. X16556—3¾ IN. PEARL HANDLE ..... Per Dozen, $47.00

CATTLE KNIFE.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Glazed Finish, German Silver Bolsters and Shield, Brass Lining.

No. X16531—3¾ IN. GENUINE STAG HANDLE. Per Dozen, $30.00

CATTLE KNIFE.

THREE BLADES, 1 Large Spear, 1 Large Clip and 1 Large Spey Point, Glazed Finish, German Silver Bolsters and Shield, Brass Lining.

No. X1053—3¾ IN. STAG HANDLE; Per Dozen $27.50

One-half Dozen in a Cardboard Box. Weight per Dozen about 3¼ lbs.

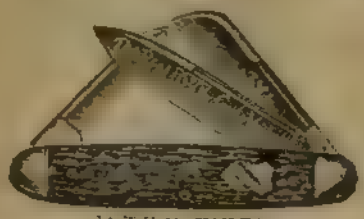
POCKET KNIVES.

GEO. WOSTENHOLM & SONS' I. X. L. BRAND.
Extra Quality English Crucible Steel Blades, Highly Tempered SHARPENED READY FOR USE

CATTLE KNIFE.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X16229—3¾ IN. PEARL HANDLE..... Per Dozen, $52.00



CATTLE KNIFE.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X16228—3¾ IN GENUINE STAG HANDLE..Per Dozen, $33.00

CATTLE KNIFE.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Bolsters; German Silver Shield, Steel Lining.

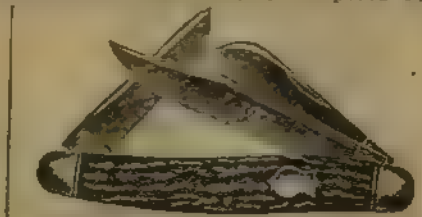
No. X2053—3¾ IN STAG HANDLE ...Per Dozen, $24.00

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X2054—3¾ IN. STAG HANDLE..... Per Dozen, $29.00

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen, Glazed Finish German Silver Bolsters and Shield, Brass Lining.

No. X17069—4 IN STAG HANDLE..... Per Dozen, $40.00



THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey, Full Polished; German Silver Bolsters and Shield; Brass Lining.

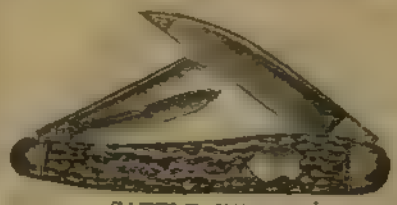
No. X16827—4 IN. GENUINE STAG HANDLE.....Per Dozen, $36.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Glazed Finish, German Silver Bolsters and Shield, Brass Lining.

No. X2055—3¾ IN. STAG HANDLE.....Per Dozen, $24.00

FOUR BLADES, 1 Large Clip, 1 Large Sheep Foot, 1 Large Spey and 1 Pen, Glazed Finish, German Silver Bolsters and Shield; Brass Lining.

No. X2225—4 IN STAG HANDLE.....Per Dozen, $33.50



CATTLE KNIFE.

THREE BLADES, 1 Large Wharncliffe and 2 Pens, Full Polished; German Silver Bolsters and Shield; Brass Lining.

No. X11231—4 IN GENUINE STAG HANDLE.....Per Dozen, $35.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish German Silver Bolster, Cap and Shield; Brass Lining.

No. X17003—3¾ IN. STAG HANDLE..... Per Dozen, $15.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster and Shield Brass Lining.

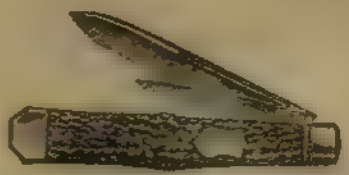
No. X17001—3¾ IN. STAG HANDLE... ...Per Dozen, $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster and Shield; Brass Lining.

No. X17002—3¾ IN STAG HANDLE ..... Per Dozen, $16.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. X17005—3¾ IN. STAG HANDLE ..... Per Dozen, $16.50



TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster, Cap and Shield Brass Lining.

No. X17006—3½ IN. STAG HANDLE.....Per Dozen, $23.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish Polished Steel Rat-tail Bolster, German Silver Cap and Shield Steel Lining.

No. X17009—3¾ IN STAG HANDLE..... Per Dozen $18.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2½ lbs.

1965

POCKET KNIVES.

GEO. WOSTENHOLM & SONS' I. X. L. BRAND

Extra Quality English Crucible Steel Blades, Highly Tempered, SHARPENED READY FOR USE

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish, German Silver Lining, Polished Steel Bolsters, Cap and Shield. Full Pearl Handle.

No. X17016—[illegible] IN. STAG HANDLE.....Per Dozen, $15.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish, German Silver Lining, Polished Steel Bolsters, Cap and Shield. Full Pearl Handle.

No. X3013—3¾ IN. STAG HANDLE.....Per Dozen, $17.00

BARLOW PATTERN

TWO BLADES, 1 Large Spear and 1 Pen, Glazed Finish; Polished Steel Bolster; Steel Lining

Per Dozen

No. X52—3¾ IN. BROWN BONE HANDLE.....$6.00

3¾ IN. BROWN BONE HANDLE. ONE LARGE BLADE, Glazed Finish; Polished Steel Bolsters; Steel Lining

Per Dozen

No. X51—SPEAR POINT BLADE $4.80

No. X53—SPEY POINT BLADE. 4.80

TWO BLADES, 1 Large Clip Point and 1 Pen, Glazed Finish; German Silver Bolster, Cap and Shield. Full Pearl Handle. Steel Lining.

No. X17060—3¾ IN. STAG HANDLE.....Per Doz. $16.00

TWO BLADES, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolster; Steel Lining.

No. X6926—3¾ IN. GENUINE STAG HANDLE.....Per Dozen, $14.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; German Silver Bolster, Cap and Shield. Full Pearl Handle. Steel Lining.

No. X17014—4 IN. STAG HANDLE.....Per Dozen, $24.00

TWO BLADES, 1 Large Sheep Foot and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolsters, Steel Lining.

No. X6924—3¾ IN. GENUINE STAG HANDLE.....Per Dozen, $13.00

One Large Spear Point Blade, Glazed Finish; Polished Steel Rat-tail Bolster; Steel Lining.

No. X8024—3¾ IN. GENUINE STAG [illegible] Per Dozen $12.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; German Silver Bolsters, Steel Lining.

No. X8024—3¾ IN. GENUINE STAG [illegible] Per Dozen $12.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish, Polished Steel Rat-tail Bolsters, Steel Lining.

No. X129-2—3¾ IN. GENUINE STAG HANDLE. Per Dozen, $15.00

No. X8019.

3¾ IN. EMBOSSED IRON HANDLE, TWO BLADES, 1 Large and 1 Pen, Glazed Finish, Polished Steel Rat-tail Bolster; Steel Lining

Per Dozen

No. X8019—1 LARGE SPEAR POINT AND 1 PEN.....$11.50

No. X8013—1 LARGE CLIP POINT AND 1 PEN.....11.50

No. X11160—1 LARGE SPEY BLADE AND 1 PEN.....11.50

3½ IN. EMBOSSED IRON HANDLE ONE LARGE BLADE.

Per Dozen

No. X8018—1 LARGE SPEAR BLADE.....$6.40

No. X13758—1 LARGE SPEY [illegible].....6.40

TWO BLADES, 1 Large Clip Point and 1 Pen, Glazed Finish; Polished Steel Bolsters, Steel Lining.

No. X7013—3¾ IN. GENUINE STAG HANDLE.....Per Dozen, $11.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; Polished Steel Rat-tail Bolster; Steel Lining

Per Dozen

No. X7042—4½ IN. GENUINE STAG HANDLE Per Dozen, $16.50

One-half Dozen in a Cardboard Box; Weight per Dozen about 2½ lbs.

POCKET KNIVES.

GEO. WOSTENHOLM & SONS I. X. L. BRAND.

Extra Quality English Crucible Steel Blades, Highly Tempered, SHARPENED READY FOR USE

OFFICE KNIFE.

TWO BLADES, 1 Large [illegible] Point and 1 Large Eraser Point, Glazed Finish; Brass Lining.

Per Dozen

No. X16570G—3½ IN. IMITATION BUFFALO HORN HANDLE $16.00

1 Large Spear Point Blade, Glazed Finish

No. X50—3¼ IN. EMBOSSED IRON HANDLE.....Per Dozen, $3.30

PRUNING KNIFE.

ONE LARGE BLADE, Glazed Finish; Polished Steel Bolster.

No. X14151—3¾ IN. EMBOSSED IRON HANDLE Per Dozen, $10.00

OFFICE KNIFE

TWO BLADES, 1 Large Spear Point and 1 Large Eraser Point, Glazed Finish, Brass Lining

Per Dozen

No. X16584—3¾ IN. WHITE CELLULOID HANDLE $17.00

ONE BLADE BUDDING KNIFE

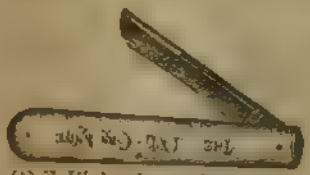
TWO BLADES, 1 Large Spear Point and 1 Large Eraser Point, Polished Steel Blades; 1 Bolster; Steel Lining

No. X8020—3¾ IN. EMBOSSED IRON HANDLE..Per Dozen, $10.50

ONE BLADE BUDDING KNIFE

Per Dozen

No. X7030—4 IN. IVORY HANDLE, Glazed Finish Blade.....$18.00



ONE BLADE BUDDING KNIFE

Full Polished Blade, Brass Lining.

No. X12825—3½ IN. IVORY HANDLE .....Per Dozen, $15.50

ONE BLADE BUDDING KNIFE.

Fixed Ivory Blade for Grafting, Glazed Finish Blade; German Silver Bolster, Brass Lining

Per Dozen

No. X7891—3 IN. BUFFALO HORN HANDLE $15.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs.

[illegible] BUTTON

First Quality English Crucible Steel Blades, Hand Hammered, Highly Tempered, SHARPENED READY FOR USE

One Large Clip Point Blade, Full Polished; German Silver Bolster and Folding [illegible] Steel Lining

No. 1005WG—5 IN. STAG HANDLE.....Per Dozen, $10.00

[illegible] STEEL [illegible] Leather [illegible] Blade

ONE LARGE BLADE, Full Polished; German Silver Bolster; Steel Lining

Per Dozen

No. 1000PB—5 IN. STAG HANDLE, Clip Point Blade.. $16.00

No. 1100PB—5 IN. STAG HANDLE, Spear Point Blade.. 16.00

No. 1007PB—5 IN. EBONY HANDLE .. 16.00

No. 1200PB—5 IN. STAG HANDLE, Spear Point, Sober Pattern 17.00

[illegible]

Two Large Blades, [illegible] LARGE STAG HANDLE, POLISHED BRASS LINING, Half Polished Blades

No. 117PB—3½ IN. STAG HANDLE .....Per Dozen, $17.00

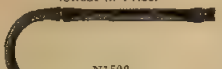
One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

Cane Department

The Largest Variety of Popular Styles. The best for Cane Rack Men. Prices None Can Equal. BUYING FROM US YOU BUY FROM FIRST HANDS. WE MANUFACTURE ALL CANES WE LIST.

Japanese Canes

We Manufacture OUR OWN Canes Guaranteed best in quality and lowest in Price.

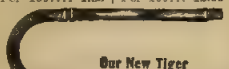


N1500

No. N1500. Imported Jap Cane, good looking, thoroughly finished enameled Jap stock, bent crook handle, a very popular seller.
Per 100.... 1.00 | Per 1000... 9.00

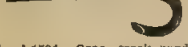
No. N1501. Japanese Canes, Crook handle, select Japanese bamboo stick, enameled dark rosewood color, highly polished.
Per 100... 1.15 | Per 1000... 10.00

No. N1502. Jap Cane, extra heavy Jap bamboo sticks with natural step knots, crook handle, baked japanned finish, maroon color; none but heavy select sticks used; size ⅞ to ¾ in.
Per 100.... 1.35 | Per 100... 12.00

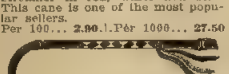


Our New Tiger Finish

Our New Tiger Finish Canes, quite different from any finish in the market; select bamboo sticks, polished in oil, assorted sizes, natural knots, which are scorched. A rich looking cane. Prince of Wales crook handle.
No. 1503. Per 100..... 1.50
Per 1000 ..... 13.50



No. N1504. Cane, crook handle, genuine Japanese stock, dark mahogany color, enameled finish, ornamented with aluminum band, spirally wound and a silk ribbon streamer in red, white and blue. This cane is one of the most popular sellers.
Per 100... 2.00 | Per 1000... 27.50



No. N1505. Cane, Japanese bamboo, dark mahogany color enameled finish with ornamental braided covering of red, white and blue ribbon ending in streamers.
Per 100... 5.00 Per 1000... 40.00

RED, WHITE AND BLUE CANES.

No. N1506. Canes, red, white and blue striped pattern, good stick, covered with the national color paper, sticks and heads are separate, but may be readily put together.
These are nicer finished, better quality than offered anywhere.
Per 100 1.00 | Per 1000... 9.50

BAMBOO STICK CANES.

N1510 N1511 N1512

No. N1510. Cane, tonquin reed with natural knots, assorted sizes. Dozen ..... .08

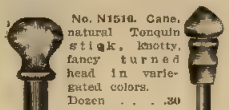
No. N1511. Cane, natural Tonquin stick, with ball knobs, polished in red. Dozen..... .15

No. N1512. Cane, natural Tonquin stick with knots, black enameled ball top. Per dozen.... .25

N1513 N1514

No. N1513. Cane, natural Tonquin stick, with natural knots, neat china dog head in cobalt blue. Per Dozen..... .25

No. N1514. Cane, Korea bamboo club stick, natural wood handle Per dozen ..... .27



N1516 N1517

No. N1516. Cane, natural Tonquin stick, knotty, fancy turned head in variegated colors. Dozen 30

No. N1517. Cane, natural Tonquin stick, knotty, with black enameled, fancy turned design top Dozen ..... .30

N1520 N1521 N1543

No. N1520. Cane, bamboo stick with natural knots and natural wood finish, with machine turned ridged head, finished in assorted colors. Dozen..... .30

No. N1521. Cane, genuine bamboo stick, natural root head, select sizes, oil finish. Dozen 30

No. N1543. Cane, select Korea stick with pretty natural knots and root, handle finished in baked japan, maroon color, gloss, polished, nickel ferrule. Dozen..... .40

Maple Stick Canes

N1518 N1519

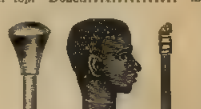
No. N1518. Cane, maple stick, black finish, with enameled red ball top. Dozen ..... .25

No. N1519. Cane, maple stick, black finish, with black enameled barrel top. Dozen..... .27

N1529 N1522

No. N1529. Cane, maple stick, black finish, machine turned top, with ridges enameled in colors, assorted, purple and red. Doz.. .30

No. N1522. Cane, maple stick, black finish, with enameled black ball top. Dozen..... .30



N1528 N1538 N1525

No. N1523. Cane, maple stick, black finish, knob shaped turned head, enameled in red and purple assorted. Per dozen..... .30

No. N1538. Cane, maple stick, black finished, china tops, assorted head designs. Dozen..... .30

No. N1525. Cane, maple stick, finished in black, ebonized fancy turned wood whistle for handle. Dozen ..... .30

N1524 N1526

No. N1524. Cane, maple stick, black finish, with blue china ball top. Per dozen..... .30

No. N1526. Cane, maple stick, black finish, fancy turned head, finished in enameled imitation mottled celluloid. Per dozen..... .33

POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON, IXL

Per Dozen

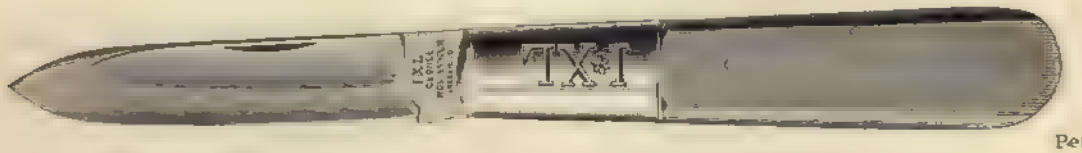
No. 1BS —Barlow, One Spear Point Blade, 3⅜ in. Bone Handle, Iron Lined, Iron Bolster, Glazed.....$4.00
No. 1BSP—Barlow, One Speying Blade, 3⅜ in. Bone Handle, Iron Lined, Iron Bolster, Glazed..... 4.00

One-half Dozen in a Box

Per Dozen

No. 1BC—Barlow, One Blade, 3⅜ in Bone Handle, Iron Lined, Iron Bolster Glazed $4.00

One-half Dozen in a Box



Per Dozen

No. 2BS—Barlow, Two Blades, 3⅜ in. Bone Handle, Iron Lined, Iron Bolster, Glazed..... .$6.00

One-half Dozen in a Box

Per Dozen

No. 2BSP—Barlow, Two Blades, 3⅜ in Bone Handle, Iron Lined, Iron Bolster, Glazed.. .... $6 00

One-half Dozen in a Box

Per Dozen

No. 2BC—Barlow, Two Blades, 3⅜ in. Bone Handle, Iron Lined, Iron Bolster, Glazed..... . ...$6 00

One-half Dozen in a Box

Per Dozen

No. 6004— Two Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Bolster, Glazed $11 00

One-half Dozen in a Box

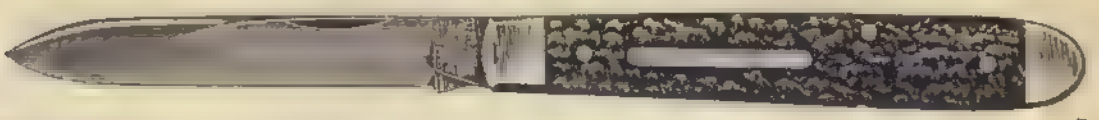
POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON, IXL

No. 17016— Two Blades, 3¼ in. Stag Handle, Brass Lined, Steel Bolster and Cap, Glazed . . . . . Per Dozen $15.00

One-half Dozen in a Box



No. 17003 Two Blades, 3¼ in Stag Handle, Brass Lined, Steel Bolster and Cap, Polished . . . . Per Dozen $15 00

One-half Dozen in a Box

No. 17009—Two Blades, 3⅝ in. Stag Handle, Steel Lined, Iron Bolster and Cap, Glazed.. Per Dozen $15 00

One-half Dozen in a Box

No. 17005—Two Blades, 3⅝ in. Stag Handle, Brass Lined, Iron Bolster and Cap, Polished . . . . Per Dozen $23 00

One-half Dozen in a Box

No. 2153—Congress, Two Blades, 3 in. Stag Handle, Brass Lined, Iron Bolsters, Glazed.... Per Dozen $12 00

One-half Dozen in a Box

No. 2154—Congress, Two Blades, 3½ in Stag Handle Brass Lined, Iron Bolsters, Glazed.... ... ... Per Dozen $13 00

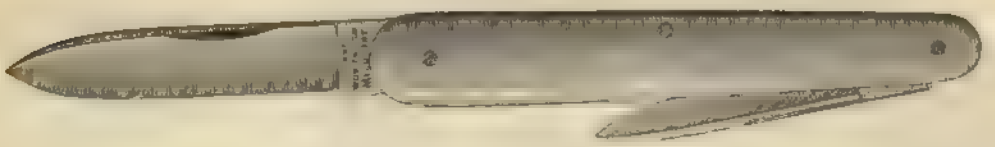
One-half Dozen in a Box .

HUEY & PHILP HARDWARE COMPANY.

POCKET KNIVES

Cuts Full Size

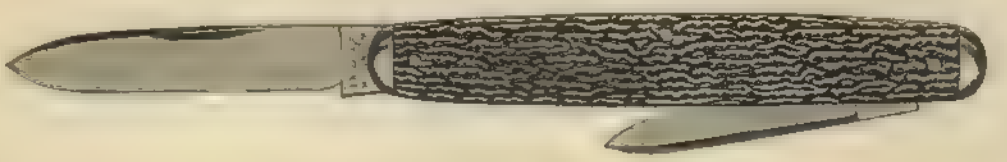
GEORGE WOSTENHOLM & SON, IXL



Per Dozen

No. 2018—Two Blades, 3⅝ in. Ivory Handle, Brass Lined, Polished **$13.00**

One-half Dozen in a Box



Per Dozen

No. 2142 Two Blades, 3⅝ in Stag Handle, Brass Lined Steel Tips, Polished . . . **$16 00**

One-half Dozen in a Box

Per Dozen

No. 2147—Two Blades, 3¼ in. Stag Handle, Brass Lined, Steel Bolsters, Polished **$18.00**

One-half Dozen in a Box

Per Dozen

No. 2094—Two Blades, 3 in. Shadow Pearl Handle, Brass Lined, Polished..... **$28.00**

One-half Dozen in a Box

Per Dozen

No. 2068 —Two Blades, 3⅝ in Pearl Handle, Brass Lined Steel Tips Polished. **$17 00**

One-half Dozen in a Box

Per Dozen

No. 2044—Two Blades, 3¼ in. Pearl Handle, Brass Lined, Polished **$28 00**

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON, IXL

Per Dozen

No. 2061—Three Blades, 3⅝ in. Stag Handle, Brass Lined, Polished $17.00

One-half Dozen in a Box

Per Dozen

No. 2065—Three Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Tips, Polished..... $13 00

One-half Dozen in a Box

Per Dozen

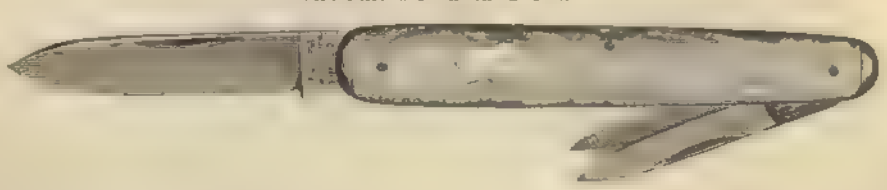
No. 16711—Three Blades, 3 in. Pearl Handle, Brass Lined, Steel Bolsters, Polished.. $32 00

One-half Dozen in a Box

Per Dozen

No. 2144—Three Blades, 3½ in Stag Handle, Brass Lined, Steel Tips, Polished.. $24 00

One-half Dozen in a Box



Per Dozen

No. 2122—Three Blades, 3 in. Pearl Handle, Brass Lined, Steel Tips, Polished. $33 00

One-half Dozen in a Box

Per Dozen

No. 6353 Four Blades, 3 in Pearl Handle, German Silver Bolsters Brass Lined Polished . $34 00

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

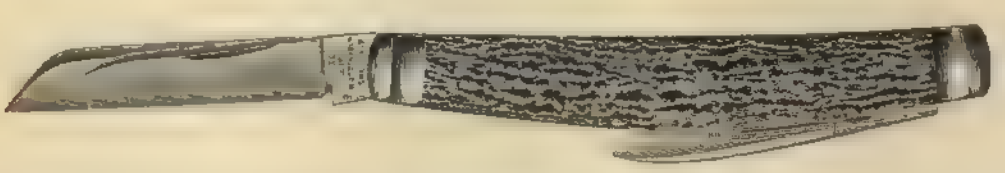
POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON, IXL

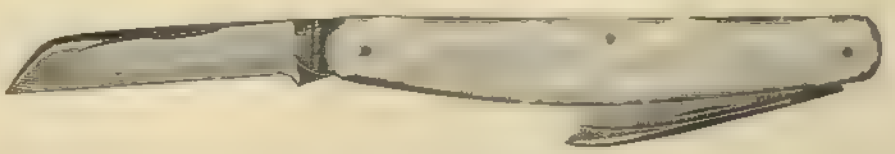
No. 2159—Three Blades, 3 in. Stag Handle, Brass Lined, Iron Bolsters, Glazed..... Per Dozen $22.00

One-half Dozen in a Box



No. 2160—Four Blades, 3⅝ in. Stag Handle, Brass Lined, Iron Bolsters, Glazed . . . . . Per Dozen $23 00

One-half Dozen in a Box



No. 2281—Four Blades, 3 in. Shadow Pearl Handle, Brass Lined, Glazed . . Per Dozen $33.00

One-half Dozen in a Box

No. 16042—Four Blades, 3 in. Shadow Pearl Handle, Brass Lined, German Silver Shield, Polished. . . . Per Dozen $44.00

One-half Dozen in a Box

No. 14284—Four Blades, 3⅝ in Pearl Handle, Brass Lined, Polished . . . Per Dozen $60.00

One-half Dozen in a Box

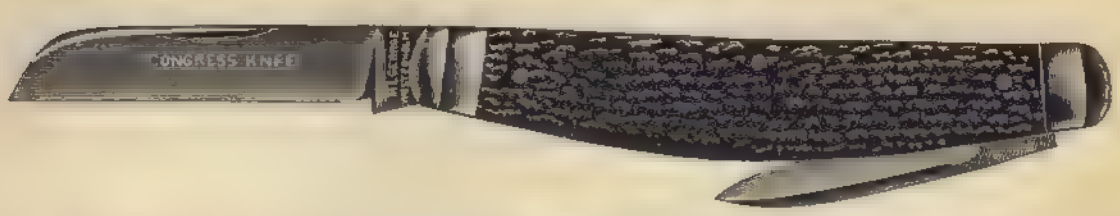
No. 15628 Two Blades and Long Nail File, 2¾ in Shadow Pearl Handle Brass Lined Polished . Per Dozen $34.00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON, IXL



No. 2156—Congress, Two Blades, 3¾ in Stag Handle, Brass Lined, Iron Bolsters, Glazed . . . . . Per Dozen $16.00

One-half Dozen in a Box

No. 2161 Four Blades, 3½ in. Stag Handle, Brass Lined, Iron Bolster, Glazed . . . . . Per Dozen $24.00

One-half Dozen in a Box

No. 2198—Four Blades, 3¾ in. Stag Handle, Brass Lined, Iron Bolsters, Glazed . . . . . Per Dozen $25.00

One-half Dozen in a Box

No. 17020—Three Blades, 3½ in Stag Handle, Brass Lined, German Silver Bolsters and Shield, Glazed . . . . . Per Dozen $24 00

One-half Dozen in a Box

No. 16827—Cattle Knife, Three Blades, 4 in., Stag Handle, Brass Lined, German Silver Bolsters and Shield, Polished . . . . . Per Dozen $35 00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

GEORGE WOSTENHOLM & SON. IXL

Per Dozen

No. 2042—Two Blades, 3½ in Stag Handle, Brass Lined, Steel Bolster and Cap, Glazed.....$16.00

One-half Dozen in a Box

Per Dozen

No. 17024—Three Blades, 3⅝ in. Stag Handle, Brass Lined, Steel Bolsters, Polished.....$25 00

One-half Dozen in a Box

Per Dozen

No. 2054—Cattle, Three Blades, 3½ in. Stag Handle, Brass Lined, Steel Bolsters, Glazed.....$26.00

One-half Dozen in a Box

Per Dozen

No. 2241 Two Blades, 3½ in Stag Handle, Brass Lined, German Silver Bolsters and Shield, Glazed.... $21 00

One-half Dozen in a Box

Per Dozen

No. 17051—Two Blades, 3⅞ in. Stag Handle, Iron Lined, Iron Bolsters, Glazed.....$23 00

One-half Dozen in a Box

LAMP ASSORTMENTS.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 6 PLASTER COLLAR OPAL LAMPS SHOWN BELOW, 3 WITH ALL GLASS FOUNTS AND 3 WITH METAL FEET.

Complete with Globes, Shades, 4 in. Combination Globe and 7 in. Combination Shade Rings, No. 2PS Sun Burners and No. 2-86 Chimneys. Metal Trimmings, Gilt Finished. Decorations Burnt in. Oil Pot Capacity about 2 Pints.

NO WICKS INCLUDED.

6 LAMPS

Assortment will not be broken.

No. 1200FA.....Each, $1.50

Height to Top of Globe 15½ in.; 7⅛ in. Globe; Metal Foot.

Ruby and Yellow Blended Background, Red Carnation and Green Leaves, Full Tinted.

No. 1200FB.....Each, $1.50

Height to Top of Shade 14½ in.; 7 in. Crown Top Shade; Metal Foot.

Yellow and Green Blended Background; Pink Rose and Green Leaves; Full Tinted.

No. 1200FC.....Each, $1.50

Height to Top of Globe 15½ in.; 7⅛ in. Globe; Metal Foot.

Pink and Yellow Blended Background; Wild Rose and Green Leaves, Full Tinted.

No. 1200A.....Each, $1.50

Height to Top of Globe 15½ in. 7⅛ in. Globe.

Ruby and Yellow Blended Background; Red Roses and Green Leaves, Full Tinted.

No. 1200B.....Each, $1.50

Height to Top of Globe 15½ in.; 7⅛ in. Globe.

Storm and Nile Green Blended Background; Cluster of Red Roses and Green Leaves.

No. 1200/C.....Each, $1.50

Height to Top of Shade 14½ in.; 7 in. Crown Top Shade.

Yellow and Green Blended Background; Purple Blossoms; Full Tinted.

No. 1200—ASSORTMENT OF SIX LAMPS.....Per Assortment, $10.00

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 6 Lamps in a Barrel; Weight about 55 lbs.

WE MAKE NO CHARGE FOR PACKING.

LAMP ASSORTMENTS.

DECORATED PARLOR

CONTAINS ONE EACH OF THE 6 PLASTER COLLAR OPAL LAMPS SHOWN BELOW.

Complete with Globes, Shades, 4 in. Combination Globe and 7 in. Combination Shade Rings, No. 2PS Sun Burners and No. 2-80 Chimneys, Cast Feet and Metal Trimmings, Gilt Finished. Decorations Burn 9 to 10 Hours. Oil Pot Capacity about 1¾ Pints.

NO WICKS INCLUDED.

6 LAMPS

Assortment will not be broken.

No. 1101/1B.....Each, $2.00

Height to Top of Globe 17½ in., 8 in. Globe.

Pink and Green Blended Background, White and Purple Tiger Lilies and Green Leaves.

No. 1101/1A.....Each, $2.00

Height to Top of Globe 16½ in., 7½ in. Globe.

Terra Cotta, Opal and Pink Blended Background, Red Roses and Green Leaves.

No. 1101/2A.....Each, $1.75

Height to Top of Shade 17⅛ in.; 7 in. Crown Top Shade.

Robin Egg Blue and Red Blended Background, Red and Yellow Wild Roses and Green Leaves.

No. 1101/2B.....Each, $1.75

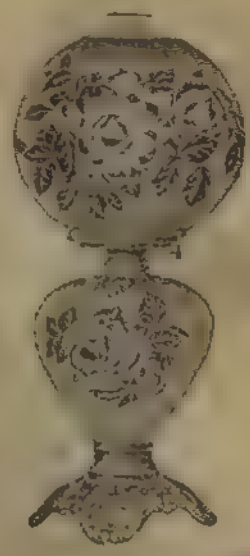
Height to Top of Shade 16¼ in.; 7 in. Crown Top Shade.

Green, Opal and Blue Blended Background, Pink Roses with Green Leaves.

No. 1101/3B.....Each, $2.00

Height to Top of Globe 16½ in.; 7½ in. Globe.

Pink, Opal and Blue Blended Background, Red and Pink Hollyhocks and Green Leaves.



No. 1101/3A.....Each, $2.00

Height to Top of Globe 17½ in.; 7½ in. Globe.

Red and Pink Blended Background, Red Roses, Buds and Spray of Green Leaves.

No. 1101—ASSORTMENT OF SIX LAMPS.....Per Assortment, $11.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 6 Lamps in a Barrel; Weight about 65 lbs.

WE MAKE NO CHARGE FOR PACKING.

1804

LAMP ASSORTMENT.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 3-LIFT-OUT FOUNT LAMPS AND ONE EACH OF THE 2 PLESTER COLLAR OPAL LAMPS SHOWN BELOW.

Complete with Globes, 4 in. Globe Rings, Oil Pads, Burners, Collars, Chimneys, Cast Feet and Metal Trimmings. **Gilt Finished; Decorations Burnt in. Oil Capacity about 1¼ Pints.**

NO WICKS INCLUDED

6 LAMPS

Assortment will not be broken.

No. 1106 2 C. ..... Each, $3.50

Height to Top of Globe 17¾ in.; 9 in. Globe, No. 2 Lift-Out Fount, Lift-Out Burner, Wick and No. 1 Chimney. (Ruffled)

Terra Cotta Ground, Green and Yellow Blended, Floral Pink and Purple Border, Green Leaves.

No. 1106 2 A ..... Each, $3.00

Height to Top of Lamp 17¾ in.; 9 in. Globe, No. 2 Lift-Out Fount, Lift-Out Burner, Wick and No. 1-L Chimney.

Opal and Pink Blended Background, Pink and Yellow Roses, Buds and Spray of Green Leaves.

No. 1106B..... Each, $2.50

Height to Top of Globe 17¾ in., 8 in. Globe, No. 2 Lift-Out Fount, Lift-Out Burner and No. 2 Chimney.

Terra Cotta and Pink Green Blended Background, Purple Poppy and Green Leaves.

No. 1106J ..... Each, $3.00

Height to Top of Globe 21½ in.; 9 in. Globe, No. 2 Lift-Out Fount and No. 2GE Lift-Out Chimney.

Storm Green and Pink Blended Background, Red and Pink Carnations and Green Leaves. Full Ruffled.

No. 1106A..... Each, $2.00

Height to Top of Shade 18 in.; Center Draft Burner, Style No. 3, Size 1 and No. 1 Chimney.

Blue and Pink Opal Background, Large Pink Roses and Green Leaves.

No. 1106C..... Each, $2.00

Height to Top of Globe 16 in.; Center Draft Burner, Style No. 3, Size 1 and No. 1 Chimney.

Opal and Pink Background, Red and Pink Wild Flowers and Green Leaves.

No. 1106—ASSORTMENT OF SIX LAMPS..... Per Assortment $17.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 6 Lamps in a Tierce; Weight about 80 lbs.

WE MAKE NO CHARGE FOR PACKING.

LAMP ASSORTMENTS.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 4 PLASTER COLLAR OPAL LAMPS SHOWN BELOW.

Complete with Shades, 4 in. Phoenix Globe Rings, No. 3R Sun Burners and No. 2 E Lamp Chimneys, Cast Feet and Metal Trimmings Gilt Finished, Decorations Burnt in, Oil Pot Capacity about 2½ Quarts.

4 LAMPS

Assortment will not be broken

NO WICKS INCLUDED.

No. 941.....Each, $2.00
Height to Top of Globe 20½ in.; 9 in. Globe.
Green and Opal Blended Background, Tinted Pink and Yellow Roses and Buds with Large Spray of Green Leaves.

No. 943.....Each, $2.50
Height to Top of Globe 20 in.; 9 in. Globe.
Blue Opal and Pink Panel Decorated Roses and Green Leaves.

No. 944.....Each, $2.50
Height to Top of Globe 20 in.; 9 in. Globe.
Rose and Brown Blended Background, Tinted Large Pink Peonies and Buds.

No. 945.....Each, $2.75
Height to Top of Shade 18 in.; Lamp Swelled 8½ in. Shade.
Green and Light Blue Blended Background, Spray of Lilacs and Green Leaves.

No. 1103—ASSORTMENT OF FOUR LAMPS.....Per Assortment, $10.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 4 Lamps in a Tierce; Weight about 60 lbs.

CONTAINS ONE EACH OF THE 3 LAMPS SHOWN BELOW, 2 WITH PLASTER COLLAR AND 1 WITH LIFT-OUT BRASS OIL FOUNT.

Complete with Globes, 4 in. Phoenix Globe Rings; No. 3R Sun Burner and No. 2-CH 10 in. Chimney; Cast Feet and Metal Trimmings, Gilt Finish. Decorations Burnt in, Oil Pot Capacity about 2 Quarts.

3 LAMPS

Assortment will not be broken.

NO WICKS INCLUDED.

No. 1102M.....Each, $2.50
Height to Top of Globe 20½ in.; 9 in. Globe.
Storm Blue Tinted, Pink Rose and Green Leaves.

No. 1102/1.....Each, $3.00
Height to Top of Globe 21½ in.; 9 in. Globe.
Ruby and Yellow Blended Background; White and Red Flowers and Green Leaves, Full Tinted.

No. 1102A.....Each, $3.00
Height to Top of Globe 21½ in., 9 in. Globe.
Ruby Tinted Cluster of Pink Roses and Green Leaves.

No. 1102—ASSORTMENT OF THREE LAMPS.....Per Assortment, $10.50

SOLD ONLY IN FULL ASSORTMENTS.

Complete Assortment of 3 Lamps in a Barrel; Weight about 55 lbs.

WE MAKE NO CHARGE FOR PACKING.

LAMP ASSORTMENTS.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 3 PLASTER COLLAR OPAL LAMPS SHOWN BELOW.

Complete with No. 3R Sun Burner, 4 in. Phoenix Globe Ring and 10 in. Phoenix Shade Ring, No. 2-GE 10 in. Chimney, Cast Feet and Metal Trimmings, Gilt Finished. Decorations Fired In. Oil Pot Capacity about 3 Pints.

NO WICKS INCLUDED.

3 LAMPS

Assortment will not be broken.

No. 1104A.....Each, $3.50

Height to Top of Globe 22½ in.; 10 in. Globe.

Ruby and Pale Blue Blended Background, Cluster of Purple Grapes and Green Leaves.

No. 1104B.....Each, $4.00

Height to Top of Shade 20 in.; Fancy Top, Embossed Scalloped Shade.

Green Blended Background with Pink Roses and Deep Green Leaves and Green Glass Beads.

No. 1104/2B.....Each, $3.50

Height to Top of Globe 22½ in.; 10 in. Globe.

Silver Green and Yellow Blended Background, Cluster of Red Tea Rose Beauty Roses and Green Leaves.

No. 1104—ASSORTMENT OF THREE LAMPS.....Per Assortment, $13.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 3 Lamps in a Barrel; Weight about 55 lbs.

CONTAINS ONE EACH OF THE 3 CENTER DRAFT OPAL LAMPS SHOWN BELOW.

Complete with No. 2 Center Draft Lift Out Oil Pot and Burner, 4 in. Success Globe Rings, No. 1-L Duplex Wicks and No. 1-L Duplex Chimney, Cast Feet and Metal Trimmings, Gilt Finished, Decorations Fired In. Oil Pot Capacity about 2 Pints.

3 LAMPS

Assortment will not be broken.

No. 1105/C.....Each, $2.75

Height to Top of Globe 20 in.; 9 in. Globe.

Pink Tinted Background, Red Poppies and Green Leaves.

No. 1105B.....Each, $4.25

Height to Top of Globe 23 in.; 10 in. Globe.

Dark Brown and Terra Cotta Blended Background, Red and White Peony and Green Leaves.

No. 1105/2B.....Each, $4.00

Height to Top of Globe 22 in.; 9 in. Globe.

Pale Blue Tinted Background, Pink Chrysanthemums and Green Leaves.

No. 1105—ASSORTMENT OF THREE LAMPS.....Per Assortment, $13.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 3 Lamps in a Barrel; Weight about 60 lbs.

WE MAKE NO CHARGE FOR PACKING.

LAMP ASSORTMENTS.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 4 PLASTER COLLAR CARDINAL RED GLASS LAMPS SHOWN BELOW
Complete with Globes, Shades, Rings, Tripods, No. 3 Sun Burners and No. 2-0SE 10 in. Chimneys, Cast Feet and Metal Trimmings, Gilt Finished; Decorations Burnt In.

4 LAMPS
Assortment will not be broken

No. 961 ..... Each, $2.50
Height to Top of Shade [illegible]
Finished Rose Wreath on Solid Red Glass
Oil Capacity, 1 Quart.

No. 962.....Each, $2.50
Height to Top of Globe [illegible]
Finished Rose Wreath on Solid Red Glass
Oil Capacity, 1 Quart.

No. 963 ..... Each $3.00
Height to Top of Shade 18 in., [illegible] No. 2, 10 in. Chimney, Tripod and Fine Gold Band
Embossed Ornamentations on Solid Red Glass
Oil Capacity, 1½ Quarts.

No. 964. ..... Each, $3.00
Height to Top of Globe 18½ in., [illegible] 4 in. Plain Collar
Finished Rose Wreath
Oil Capacity, 1½ Quarts.

No. 1107—ASSORTMENT OF FOUR LAMPS..... ....Per Assortment, $15.50

SOLD ONLY IN FULL ASSORTMENTS.
One Complete Assortment of 4 Lamps in a Barrel; Weight about 40 lbs.

CARDINAL RED PARLOR.

CONTAINS ONE EACH OF THE 3 CENTER DRAFT LAMPS SHOWN BELOW.
Complete with Globes, [illegible] Rings, No. 2 Sunset Center Draft Lift Out Pots with Burners, No. 1 Liberty Wicks and No. 1-0 [illegible] Liberty Chimneys, Cast Feet and Metal Trimmings, Gilt Finished. Oil Pot Capacity about 1⅛ Pints.

3 LAMPS
Assortment will not be broken.

No. 1108A.....Each, $5.50
Height to Top of Globe 21 in., 9 in. Globe
Solid Cardinal Glass; Fluted and Scroll

No. 1108B.....Each, $5.50
Height to Top of Globe 23 in., [illegible] Globe
[illegible] Cardinal Glass Panel Design, Plain Glass Collarettes

No. 1108/C.....Each, $5.50
[illegible] to Top of Globe 21½ in., 9 in. Globe
Cardinal Glass, with Rose

No. 1108—ASSORTMENT OF THREE LAMPS..... ..... Per Assortment, $15.50

SOLD ONLY IN FULL ASSORTMENTS.
One Complete Assortment of 3 Lamps in a Tierce; Weight about 70 lbs.
WE MAKE NO CHARGE FOR PACKING.

—1808—

LAMP ASSORTMENTS.

DECORATED PARLOR.

CONTAINS ONE EACH OF THE 3 CENTER DRAFT OPAL LAMPS SHOWN BELOW.

Complete with Globes, Shades, Globe and Shade Rings; No. 2 Success Center Draft Lift-Out Oil Pots with Burners, No. 1 Liberty Wicks and No. 1-L Liberty Chimneys; Cast Feet and Metal Trimmings; Decorations Burnt In; Oil Pot Capacity 1½ Pints.

3 LAMPS
Assortment will not be broken.

No. 1021.....Each, $7.50

Height to Top of Globe 24 in., 10 in. Globe, 4 in. Globe Rings, No. 1-L 10¾ in. Liberty Chimney.

Light and Dark Terra Cotta and Brown Variegated Blended Background, with Large Pink Roses and Green Leaves; 1 in. Red Beaded Imported Fringe.

No. 1022.....Each, $9.00

Height to Top of Shade 24 in., 12 in. Sweet Shade, 12 in. Shade Ring, No. 1-L 12 in. Liberty Chimney.

Ruby, Opal and Yellow Blended Background, Red and White Wild Roses and Green Leaves; 1 in. Red Beaded Imported Fringe.

No. 1023.....Each, $7.50

Height to Top of Globe 24½ in., 10 in. Globe, 4 in. Globe Rings, No. 1-L 10¾ in. Liberty Chimney.

Robin Egg Blue, Lavender and Yellow Blended Background; Red Jack Roses and Green Leaves.

No. 1020—ASSORTMENT OF THREE LAMPS.....Per Assortment, $21.00

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 3 Lamps in a Barrel. Weight about 70 lbs.

CONTAINS ONE EACH OF THE 3 CENTER DRAFT OPAL LAMPS SHOWN BELOW.

Complete with 10 in. Globes, No. 2 Success Center Draft Lift-Out Oil Pots and Burners, 4 in. Globe Rings; No. 1 Liberty Wicks, No. 1-L Liberty Chimneys; Cast Feet and Metal Trimmings, Gilt Plated, Decorations Burnt In; Oil Pot Capacity about 2 Pints.

3 LAMPS
Assortment will not be broken.

No. 1109 2 C.....Each, $4.75

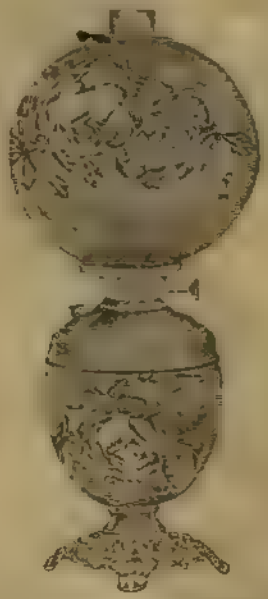
Height to Top of Globe 22 in.

Ruby, Opal and Yellow Blended Background, with Large Pink Roses and Green Leaves; Full Tinted.

No. 1109A.....Each, $4.75

Height to Top of Globe 24 in.

Red and Pink Blended Background, Red Chrysanthemums and Green Leaves; Full Tinted.



No. 1109/C.....Each, $4.25

Height to Top of Globe 23 in.

Dark Green and Yellow Blended Background, Red and Pink Roses and Green Leaves; Full Tinted.

No. 1109—ASSORTMENT OF THREE LAMPS.....Per Assortment, $15.00

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 3 Lamps in a Barrel; Weight about 75 lbs.

WE MAKE NO CHARGE FOR PACKING.

CEMENT OR CONCRETE WORK

SIDEWALK BUILDING

Excavate for foundation to a depth of from 6 to 8 inches below the surface of the proposed walk, depending upon the soil and climate conditions; where the soil is clayey or is subject to heavy frosts, the foundation should be of good depth, to allow a drainage and to take up frost expansion. After excavation has been made, the same is filled to within 4 inches of the top with well tamped, coarse gravel, broken stones, or cinders, then a 2 x 4 inch frame work is placed in position on a bed coat of thoroughly tamped grout as line of the foundation. This grout consists of gravel or crushed stone sand and cement, well mixed with moisture so that water will not show at the top when solidly tamped. The walk is then cut as blocks or sections about 5 or 6 feet square, before this layer has set or dry, moisture or before set, the top dressing or wearing coat, consisting of sand and cement with enough water to make a stiff mortar is applied to the grout. After troweling sufficiently to work the mortar out, this coat is struck off level with top of frame and smoothed with a float, always being careful to cut into blocks corresponding with those of the grout. The joints between the blocks are then finished with a jointer and the edges finished with a neat rounding bevel or square effect with an edger properly made for that purpose. The surface is then rolled with an Indentation or fine line roller, which prevents the walk from becoming slippery and gives it a neat appearance.

CURB AND GUTTER BUILDING

Excavate from 26 to 32 inches below top of proposed curb and gutter wider than curb and gutter, fill with well tamped, coarse gravel or broken stone to within 6 inches of top of gutter. Then put in position a frame work, 6 inches high and 1 inch wider than the combined curb and gutter, the back side of which extends to the top of the proposed curb. Fill this space to the rear of the curb with concrete consisting of one part cement, two parts sand and five parts gravel, to a depth of 5 inches, separating and setting apart for each foot. A 1 x 6 inch back frame in face of the curb is placed in position with spreader boards of the desired width or curb between this and back frame, this plank being firmly held in position by curb clamps; into this is tamped a grout mixture to within ¾ inch of top of curb. If the ground has been firmly tamped, the face form can be removed by unloading the clamps and a ¾ inch facing, consisting of three parts cement, five parts sand mixed and applied to the concrete body of curb and roof coat to top of gutter increasing the thickness towards outside of gutter to give proper drainage slope. This is worked to an even surface by drawing a straight edge, laid parallel with curb, from top of curb to street side of gutter. After thoroughly floating the upper face edge of curb is finished with a curbing edger having the desired shape, and the angle between curb and gutter with a curb-gutter finishing tool, the outer edges being finished with a regular sidewalk edger. The joints, which are cut to correspond with those of the grout, are finished with a light sidewalk jointer or preferably with a roller jointer, as the latter is more easily operated in the angle between the back of curb and gutter. Another convenient and popular way of making a curb is to plaster the finishing coat onto the frame and before the grout in back of finishing coat to within ¾ inch of top, which space is filled with finishing coat and struck off even with frame, the edges being finished with a curbing edger before framework is removed.

MIXING

The secret of mixing material for both grout and top dressing is in determining the voids of the materials used, which must be filled, in order to make the mixture as dense and strong as possible. For the grout, the voids in the gravel must be filled with cement. For the top coat, the voids in the same must be filled with cement, so far as it sometimes impossible, it is impracticable for us to determine exactly the voids of each of the materials used, we give the following rules for mixtures which if adhered to and thoroughly tamped a cement will be obtained with a crushing strength of 1,000 pounds per square inch of surface.

MIXTURE FOR GROUT

Where medium sized gravel or crushed stone is used, one part cement, two parts sand, five parts gravel or stone.

MIXTURE FOR TOP DRESSING

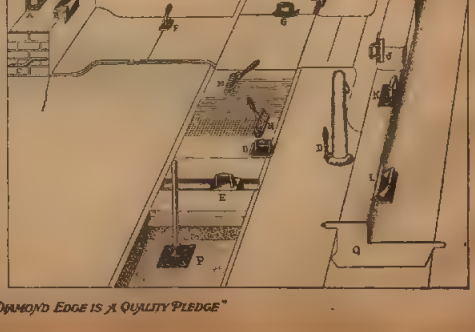
One part cement, two parts sand. Both in the grout and the top dressing the materials should be thoroughly mixed dry and again mixed after adding water. We would add that the above formulas will only apply where medium sized gravel or crushed stone is used, for if the gravel is very coarse it will be readily seen that it will require more of the finer material to fill the voids, and the only correct mixtures are those in which the finer materials will exactly fill the voids of the coarser.

COLORING

Where a special color is desired, we would recommend for **Black**—2 per cent carbon black; **Red**—10 per cent raw iron oxide; **Blue**—6 per cent ultramarine, **Brown**—6 per cent roasted iron oxide; **Buff**—10 per cent ochre.

LIST OF TOOLS SHOWN IN ILLUSTRATION

A—Step Inside Corner Trowel,
B—Step Outside Corner Trowel.
C—Bending Tool.
D—Radius Tool.
E—Gutter Trowel.
F—Adjustable Handle Groover.
G—Regular Groover.
H—Adjustable Sidewalk Edger
I—Driveway Groover.
J—Curved Outside Corner Trowel.
K—Outside Gutter Trowel
L—Inside Gutter Trowel.
M—Roller Groover.
N—Indentation Roller.
O—Edger.
P—Tamper.
Q—Gutter Plates.



POCKET KNIVES

*ENTERPRISE CUTLERY CO., GERMANY

Imported; Made Up and Sold at a Price; Will Give Good Service for Purposes Intended. Well Made and Finished. NOT GUARANTEED

TWO BLADE PENS

Senator Pattern, Length 2¾ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade, Glazed, German Silver Lining; No Shield; Weight per Dozen 6 ozs.

Per Dozen
No. F339P—Pearl Handle . $4 40

Senator Pattern; Length 2¾ inches; German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade, Glazed German Silver Lining, No Shield; Weight per Dozen 6 ozs.

Per Dozen
No F340P—Pearl Handle $4 40

Senator Pattern, Length 2¾ inches; Polished Steel Bolsters, One Large Spear and One Small Pen Blade; Full Polished, Iron Lining, No Shield; Weight per Dozen 6 ozs.

Per Dozen
No. F276P Pearl Handle $4 40

Length 2¾ inches; Polished Steel Bolsters; One Large Spear and One Small Pen Blade Glazed Iron Lining, No Shield; Weight per Dozen 6 ozs.

Per Dozen
No. F283P—Pearl Handle . $4 40

Length 2⅞ inches, German Silver Ribbed Bolsters; One Large Spear and One Small Pen Blade; Full Polished, German Silver Lining, No Shield; Weight per Dozen 4 ozs.

Per Dozen
No F335P—Pearl Handle $3 85

Length 2¾ inches; Polished Steel Ribbed Bolsters, One Large Spear and One Small Pen Blade, Full Polished; Iron Lining; No Shield; Weight per Dozen 4 ozs.

Per Dozen
No. F277P—Pearl Handle. . $4 40

Congress Pattern, Length 2½ inches, German Silver Bolsters; One Large Congress and One Small Pen Blade, Glazed German Silver Lining; No Shield; Weight per Dozen 6 ozs.

Per Dozen
No. F263P—Pearl Handle. .. $4 40

Serpentine Pattern; Length 2¾ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield. Weight per Dozen 6 ozs.

Per Dozen
No. F383ST—Patent Stag Handle. $4 40

Congress Pattern: Length 2¾ inches; Polished Steel Bolsters, One Large Congress and One Small Pen Blade, Full Polished, Iron Lining, No Shield; Weight per Dozen 6 ozs.

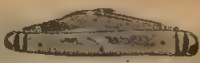
Per Dozen
No. F275P—Pearl Handle. $4 40

Sleeve Board Pattern; Length 2¾ inches; German Silver Flush Bolsters, One Large Spear and One Small Pen Blade, Full Polished; Brass Lining; German Silver Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F246P—Pearl Handle . . $3 80

Congress Pattern: Length 2½ inches; Polished Steel Knurled Bolsters, One Large Congress and One Small Pen Blade; Full Polished; Iron Lining, No Shield Weight per Dozen 8 ozs.

Per Dozen
No. F274P- Pearl Handle $3 80



Wharncliffe Pattern; Length 2¾ inches; German Silver Rat Tail Bolsters; One Large Congress and One Small Pen Blade, Full Polished; Brass Lining No Shield, Weight per Dozen 8 ozs

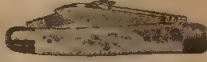
Per Dozen
No. F247P—Pearl Handle. $3 80

Wharncliffe Pattern; Length 3 inches, German Silver Flush Bolsters, One Large Clip and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F284ST—Patent Stag Handle $4 40

Length 3 inches, German Silver Flat Bolsters, One Large Spear and One Small Pen Blade; Full Polished; Iron Lining, No Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F273P—Pearl Handle ... $3 80



Wharncliffe Pattern, Length 3 inches; German Silver Flush Bolsters; One Large Spear and One Small Pen Blade; Full Polished, Brass Lining, No Shield; Weight per Dozen 8 ozs.

Per Dozen
No. F269P—Pearl Handle. $3 80

Half Dozen in a Box

SAFETY RAZORS

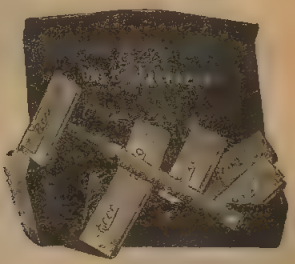
Ecco

THE SIMPLEST RAZOR MADE
ONLY TWO PARTS—THE FRAME AND THE BLADE

Enterprise Cutlery Co. U.S.A

Cut shows upright position of Razor with Blade pushed out from the top of the Frame—ready to be removed.

Cut is a Fraction smaller than full size.



Ecco RAZORS

The Frame is made of **Gold Alloy Metal**—securely fastened to a Forged Steel Handle, thus making **one piece.** Gold Alloy Metal looks like **Solid Gold** and is the **same Color** through and through. **It is not Plated.** It will not Rust or Corrode. The Handle is first plated with Copper, then **heavily Silver Plated. No Adjusting necessary. No Screws to Set or Lose. Easy to Handle and Clean. The Angle and Hang is already there.** The head has a **Straight Guard**—(no razor teeth to scratch the face.) The Blade is easily removed from the head—a slight pressure from the thumb nail at the opening in the center of the top of the frame, throws the Blade forward over the guard. It is then easily removed.

To insert Blade in the Frame—catch it between the Index finger and thumb—slide it into the frame so that the **back of the Blade touches the inside of the Frame at the Top and the Edge is Parallel** with the Guard.

Each Razor is packed in a Black Cloth covered Box, Green Velvet lined with **Seven,** high grade, **Polished, Swedish Steel Blades, Double Bevel Ground.** One blade in the Frame, six in a sealed, oil paper booklet. Each box is wrapped and sealed in wide oiled parchment paper. Twelve razors in a very attractive red carton, beautifully labeled. Length of Razor over all, 4¼ inches. Head 1⅝ inches. Size of Case 2x1x4½ inches. Weight per dozen 25⅛ lbs.

	Per Dozen
No. E40—Sets described above	$3.50

EXTRA BLADES

	Per Set
No. E40B—Extra *Ecco* Blades.—Extra Blades for *Ecco* Razors—Packed Five in Oil Paper Booklet carefully sealed; Size ⅝x1¼ inches: 12 Sets in a Red Carton attractively labeled; Weight per dozen Sets, 4 oz.	$2.40

Each Razor and Blade is **Fully Warranted.** A new one in exchange for any not satisfactory.

"Diamond Edge is a Quality Pledge"

TINNERS' MACHINES

STOW'S IMPROVED SQUARING SHEARS

Improved Quick-Acting Rear Gauge and Extra Heavy Front Arms

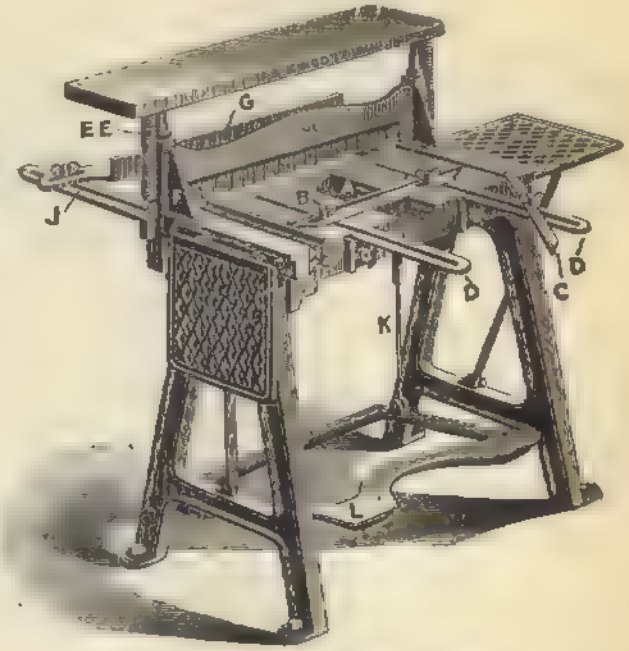
	Each
No. 125A—25 in. Long, for No 20 Iron and Lighter, Weight Each 375 Lbs.....	$47.00
No. 130A—31 in. Long, for No. 18 Iron and Lighter, Weight Each 500 Lbs...	52 00
No. 136A—37 in. Long, for No. 18 Iron and Lighter, Weight Each 785 Lbs	80 00

EXTRA BLADES

For Shears, Nos	125A	130A	136A
Per Pair	$10.50	12.00	15.00

Two pairs of heavy front arms are furnished on rear gauge support and lead edge of material to face of gauge Rods

HULL'S ACME SQUARING SHEARS



Improved Front and Back Gauges For No. 18 Iron and Lighter

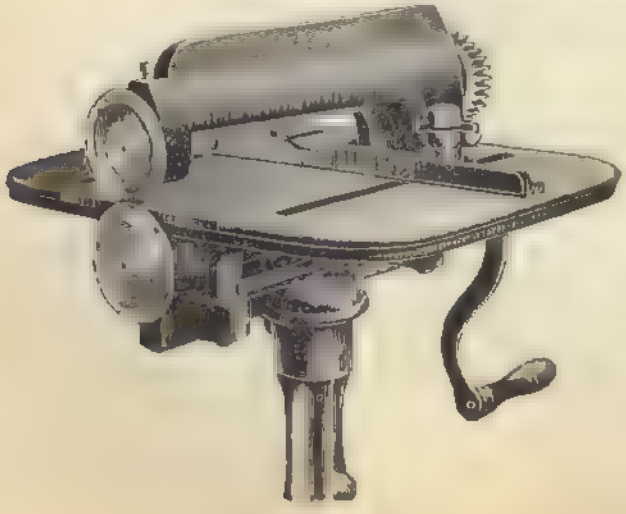
Nos.	725	730	736
Length, Inches	25	31	37
Weight Each, Lbs...	325	425	700
Each	$47.00	52.00	82.00

EXTRA BLADES

For Shears, Nos	725	730	736
Per Pair	$10 50	12.00	15 00

These Shears are designed for cutting metal, but are adapted to a variety of uses and special work, as cutting leather, cloth, paper, hard or soft rubber, etc

ROTARY SLITTING SHEARS



	Each
No. 121—For No. 20 Iron and Lighter, Complete with Standard, Weight Each 100 Lbs..	$27.00

	Per Pair
Extra Cutters	$6 00

These Shears are so designed that the frame is exceedingly solid and compact and all adjustments are easily made

They are constructed with gauge table and will cut strips from ½ to 9 inches in width

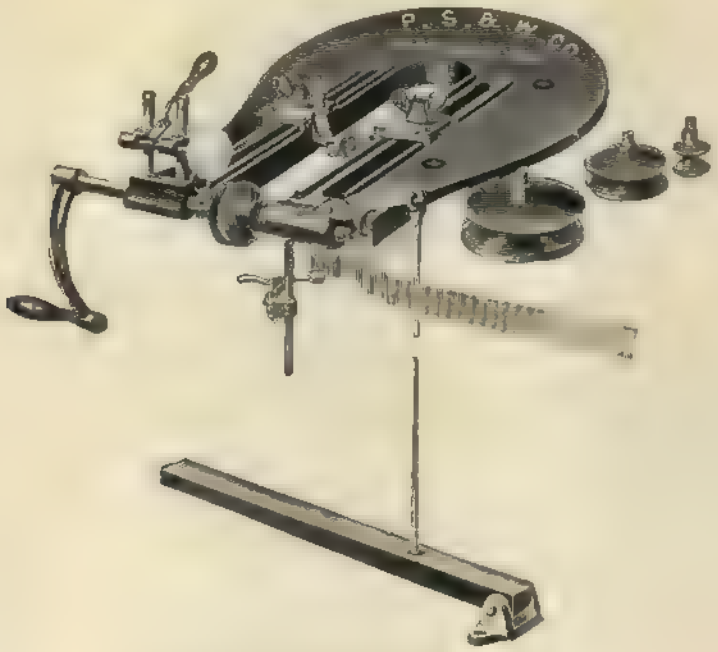
An attachment is provided to prevent strips from curling

Note—Not Carried in Stock, Shipped Direct from Factory

HUEY & PHILP HARDWARE COMPANY.

TINNERS' MACHINES

FLANDER'S PATENT CIRCULAR SHEARS

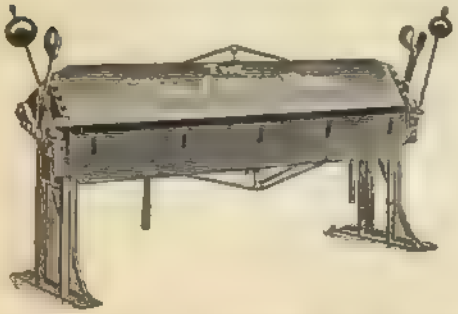


For No. 26 Iron and Lighter

	Each
No. 270—With Edge Turner, Weight Each 130 Lbs	$31 00
No. 271—Without Edge Turner, Weight Each 125 Lbs.	25 00
	Per Pair
Extra Discs, not Over 8 in. in Diameter	$2 00
	Each
Extra Edge Turner	$5 00

Four pairs of Discs, one pair each 1⅞, 3, 4⅞ and 7⅝ in. diameter are furnished
These Shears will cut and edge blanks at one setting
When using the edge turner, extra discs are required for each diameter of circle to be flanged.
After cutting the circles, they are flanged by means of the edge turner, which will turn flange at right angles up to ⅞ in. wide.
A graduating scale is marked on the frame to facilitate setting the cutters, and when once properly set blanks can be cut into circles and flanged very rapidly

STEEL CORNICE BRAKES



	Each
No. 2—10 ft. 1 in. on Forming Edge, Will Form ¾ in. Edge and Wider on 16 Gauge, Apron Edge ½ in. can be Partly Removed to Form Narrow Members, with Angle Bar Extension to Bolt on Apron for Forming Heavy Material, Complete with Formers, Suitable for Heavy as Well as Cornice and Other Light Work, Weight Each 2500 Lbs.	$260.00
No. 3—8 ft. 1 in. on Forming Edge, Will Form ¾ in Edge and Wider on 16 Gauge, Apron Edge ½ in Part can be Removed to Form Narrow Members on Light Material, Complete with Formers, Weight Each 1600 Lbs.	165 00

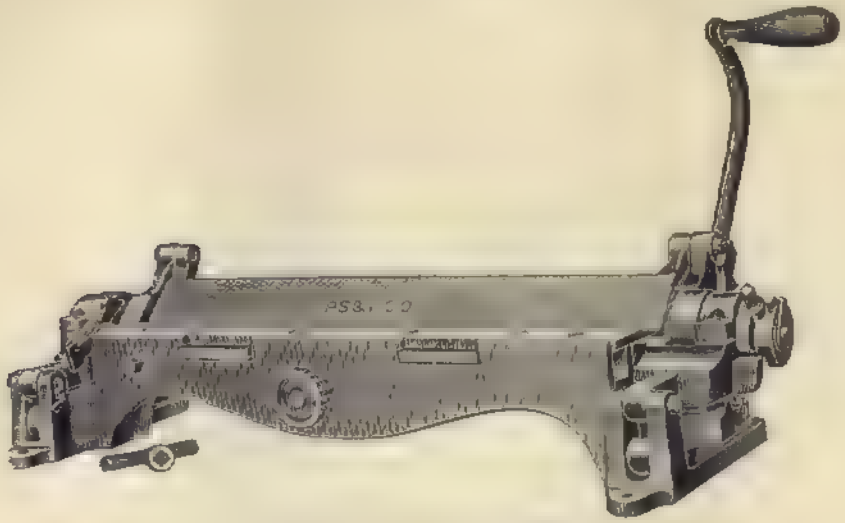
No. 4—8 ft. 1 in. on Forming Edge, Will Form ¾ in. Edge and More on 18 Gauge Full Length, Apron Edge ½ in. from which ⅛ in. can be Removed, with Angle Bar to Bolt on Apron for Forming Heavy Material, Complete with Formers, Weight Each 1000 Lbs. 110.00

These Brakes are made principally of Bessemer Steel. The hinges and jaw connecting links are of malleable steel castings. Balance weights on levers guard the jaw from closing from its own weight, while the workman is free to handle material

Note—Not Carried in Stock, Shipped Direct from Factory

TINNERS' MACHINES

STOW'S PATENT IMPROVED ADJUSTABLE BAR FOLDER



For No. 22 Iron and Lighter

	Each
No. 152A—20 in., Weight Each 100 Lbs.	$30.00
No. 154A—30 in., Weight Each 180 Lbs.	40.00

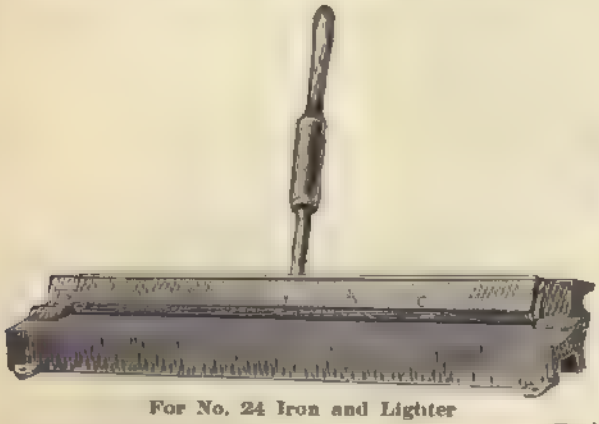
These machines will form square joints or angles and turn narrow or wide locks of uniform width the entire length. Will turn sharp edges also round edges for inserting wire. Locks can be formed as narrow as ⅛ in. and as wide as 1 in.

Set screw in front and at the left of machine holds the gauge firmly in place and secures a fold or lock of uniform width the entire length.

The movement of the gauge is instantaneous and operated by means of a hand wheel in front and center of machine.

When shipped from factory these machines are adjusted for I. C. Tin or 29 gauge metal.

STOW'S IMPROVED SHEET IRON FOLDERS



For No. 24 Iron and Lighter

	Each
No. 10A—30 in., Will Turn Locks as Narrow as ⅛ in. and as Wide as ⅝ in., Weight Each 75 Lbs.	$10.00

These Machines are so constructed that the gauge always moves upon a line parallel with the edge of the folding plate. They are constructed with iron bottom and will prove most convenient for general shop use.

IRON BOTTOM GUTTER BEADERS

With Enclosed Rod

Nos.	A3	A2	A1	01
Length Rod, Inches	120	96	60	42
Diam. Rod, Inches.	¾ to 1	⅝ to 1	⅝ to 1	½ to ⅞
Weight Each, Lbs.	200	160	90	25
Each	$40.00	30.00	20.00	9.00

Nos.	02	11	12
Length Rod, Inches	30	20	15
Diam. Rod, Inches.	½ to ⅝	⅜ to ⅝	⅜ to ⅝
Weight Each, Lbs.	18	11	6
Each	$6.00	4.00	3.50

Intended for forming a bead on the edge of gutter.

Note—When ordering, always specify diameter of Rod wanted.

Note—Not Carried in Stock, Shipped Direct from Factory

HUEY & PHILP HARDWARE COMPANY.

TINNERS' MACHINES

WRIGHT'S PATENT SHEET IRON FOLDERS

For No. 22 Iron and Lighter

	Each
No. 1—32 in., Will Turn ⅜ and ⅞ in Locks, Weight Each 80 Lbs.	$12.00

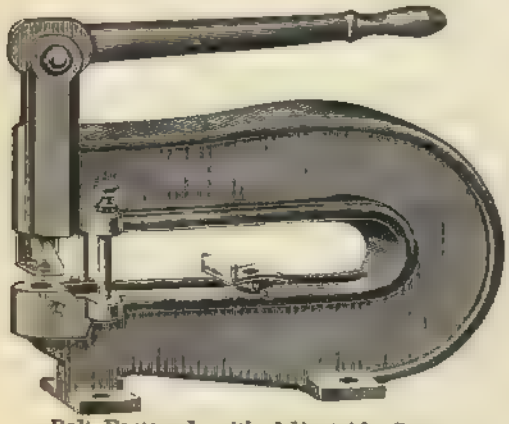
WRIGHT'S IMPROVED SHEET IRON FOLDERS

For No. 22 Iron and Lighter

	Each
No. 12—32 in., Will Turn ⅛, ¼, ½ and ⅝ in Locks, with Steel Strips, Weight Each 88 Lbs.	$15.00

This machine will turn locks of different widths on any length of sheet. By use of rod and steel strips under the plate, wider locks may be turned and sheets longer than the machine used

SAMSON PUNCHES



Bolt Fastened, with Adjustable Gauge

	Each
No. 5—Depth of Gap 15 in., Complete with Three Sets of Dies and Punches, ⅛, ¼ and ⅜ in., Weight Each 140 Lbs.	$25.00
Extra Punches	.50
Extra Dies	1.00

Will punch No 9 iron with stay bolts and No 12 iron without stay bolts. Will center on 30 in sheets without stay bolts, and on 7 in. with stay bolts.

PORTABLE LEVER PUNCHES

With Back and Side Gauges

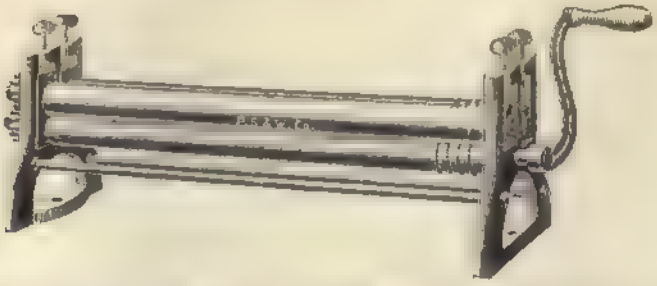
	Each
No. 10—Depth of Throat 1¼ in., Complete with Three Sets of Dies and Punches, ⅛, ¼ and ⅜ in., Weight Each 10 Lbs.	$8.00

The toggle movement is powerful and works easily and rapidly The gauges are easily adjusted. The punches can be used on material as thick as No. 20 gauge.

Note—Not Carried in Stock, Shipped Direct from Factory

TINNERS' MACHINES

STOW'S PATENT STOVE PIPE FORMERS

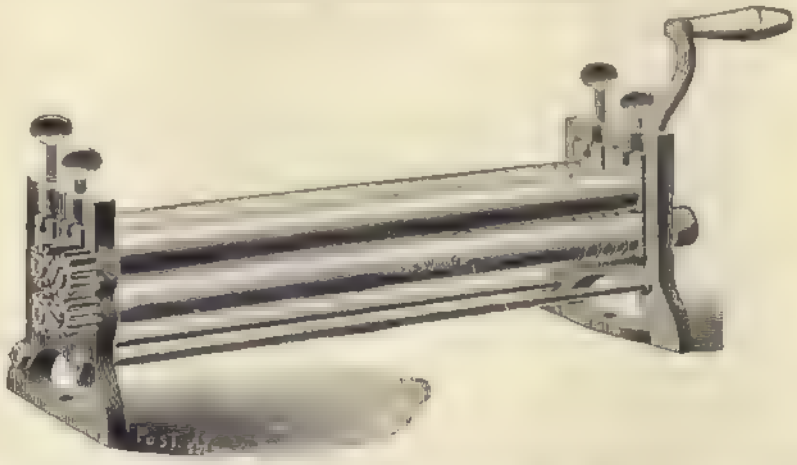


Special Rolled Hard Steel Rolls, Finely Finished, Free from Indentations and Imperfections

	Each
No. 1—2 in. Rolls, 30 in. Long, Weight Each 140 Lbs.	$19 00
No. 2—1¾ in. Rolls, 30 in. Long, Weight Each 115 Lbs.	18.00

Grooves are cut in rolls to allow work being formed after wiring. Wire should only be formed between the grooves cut for that purpose

PATENT STOVE PIPE FORMERS

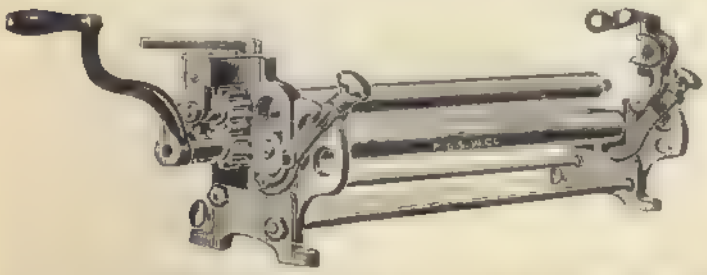


With Compensating Gear, Special Rolled Hard Steel Rolls, Machine-Cut Steel Gears

	Each
No. 12—2 in. Rolls, 30 in. Long, with Grooves Cut in Rolls to Allow Forming of Cylinders after Wiring Weight Each 140 Lbs.	$20 00

The cogs attached to gripping rolls do not articulate with each other, but with two gears so hung that when the gripping rolls are moved the mesh of the gearing is unchanged. This assures uniformity of action and durability for the cog; hence the gears run smoothly without danger of slipping or breaking with whatever thickness of metal is used

PATENT SLIP ROLL STOVE PIPE FORMERS



With Compensating Gear

	Each
No. 100—2 in. Rolls, 30 in. Long, Will Form Cylinders from DXXX Tin as Small as 2¼ in. in Diameter, and from X Tin as Small as 2¼ in., Weight Each 150 Lbs.	$22 00

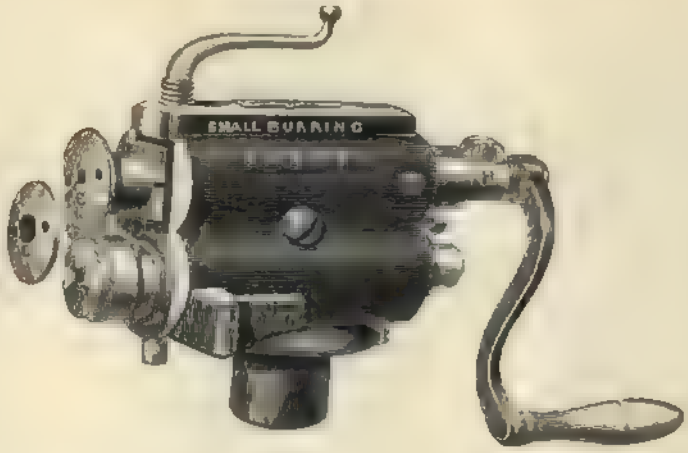
This machine is easily adjusted by means of quick-acting levers on each end in rear of machine and can be set for forming any desired size of cylinder in much less time than is required to set other formers. Made with slip rolls, so that small work can be readily taken from end after being formed. Grooves are cut in rolls to allow forming cylinders after being wired

Note—Not Carried in Stock, Shipped Direct from Factory

HUEY & PHILP HARDWARE COMPANY.

TINNERS' MACHINES

STOW'S ENCASED BURRING MACHINE

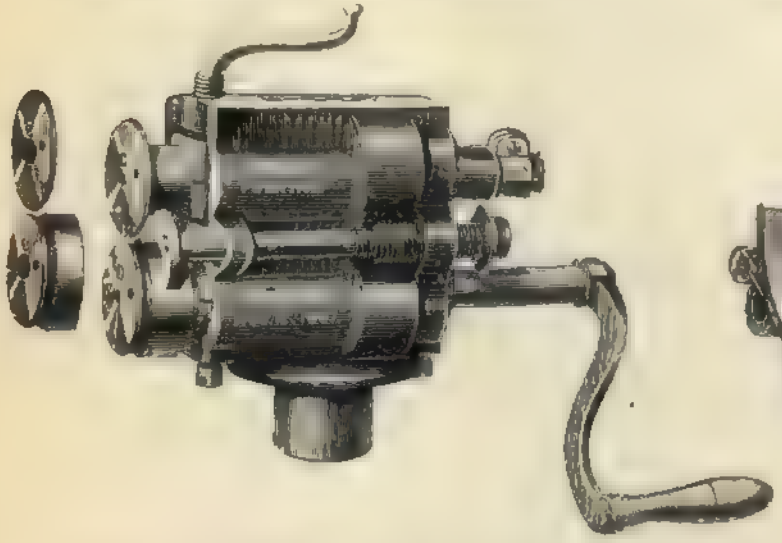


For No. 24 Iron and Lighter, with Extra Upper Face

	Each
No. 579—Small, Diameter of Faces 1½ in. with Standard, Weight Each 21 Lbs.	$10.00
No. 580—Large, Diameter of Faces 2⅛ in., with Standard, Weight Each 23 Lbs.	10.50

Used for creasing, edging rims of covers for pails, boilers, etc., and for preparing circular edges of bottoms and bodies of vessels for double seaming.

STOW'S ENCASED TURNING MACHINES

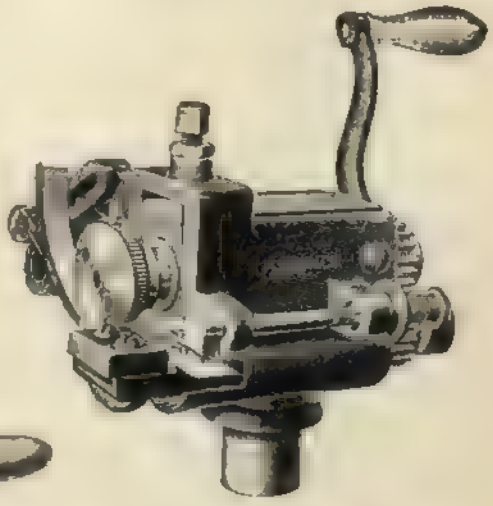


For No. 24 Iron and Lighter, with Two Sets of Faces, One Set Each, Thick and Thin

	Each
No. 545—Small, Diameter of Faces 2⅛ in., with Standard, Weight Each 23 Lbs.	$11.25
No. 546—Large, Diameter of Faces 3 in., with Standard, Weight Each 28 Lbs.	11.50

Intended for turning or curving the tops of vessels to receive wire. The wire is first formed into shape of vessel and then inserted in groove made by the turning machine. The wiring machine finishes the operation, closing metal completely around wire.

STOW'S PATENT RIM MACHINES



For No. 24 Iron and Lighter

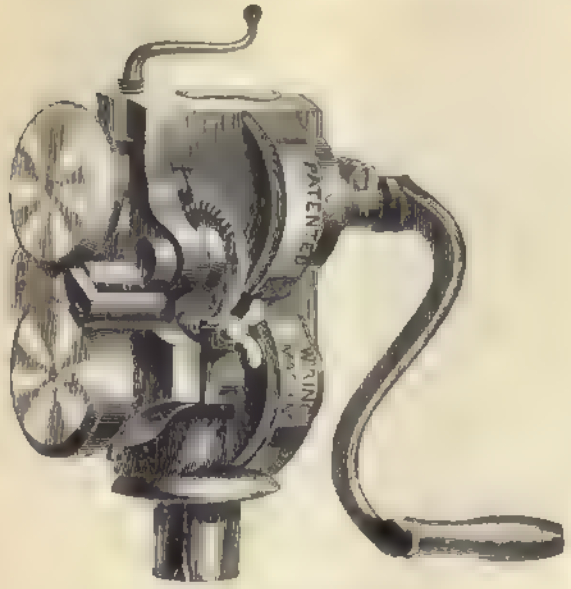
	Each
No. 604—With Standard, Weight Each 29 Lbs.	$17.50

This is a simple, compact and strong machine for making rims for sauce pans, pails, etc. It is adjustable and will form rims from 2½ in. in diameter and larger, ¾ to 1¼ in. wide, and will turn a flange on the edge of rims up to ⅞ in. wide. It will curve, flange and contract, making a perfect rim in one operation. Above illustration shows a strip of metal being curved and flanged.

Note—Not Carried in Stock, Shipped Direct from Factory

TINNERS' MACHINES

STOW'S ENCASED WIRING MACHINES



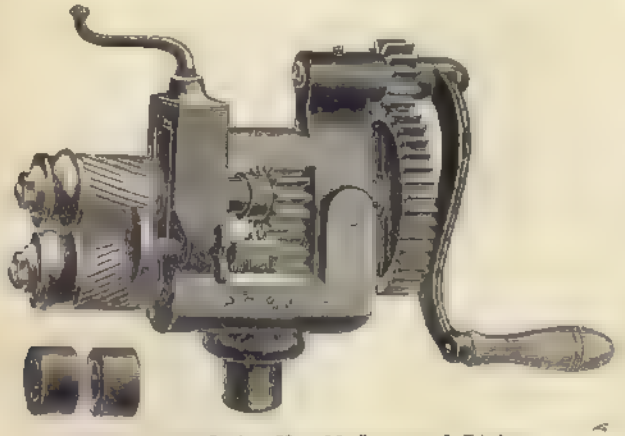
For No. 24 Iron and Lighter

Each

No. 326—Diameter of Faces 3 in., with Standard, Weight Each 28 Lbs. $14.00

The boxes on this machine are adjustable and the upper faces can be adjusted to compensate for wear of journals. The screws under the frame take up the wear of the lower shaft.

STOVE PIPE CRIMPERS AND BEADERS



Rack Geared, for No. 22 Iron and Lighter

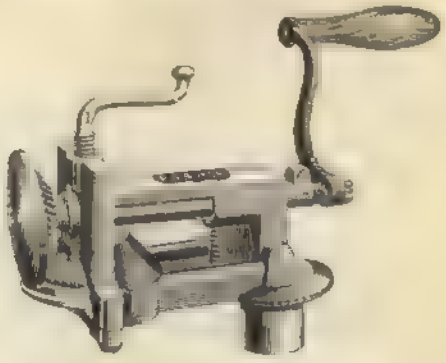
Each

No. 7—Spiral Crimping and Beading Rolls, with Standard, Weight Each 48 Lbs. $12.00

Will crimp and contract the edges of stove and conductor pipe so that the lengths are put together easily.

When crimping only is desired, blank collars, which are furnished with each machine, are substituted in place of ogee rolls.

COLUMBIAN SETTING DOWN MACHINES



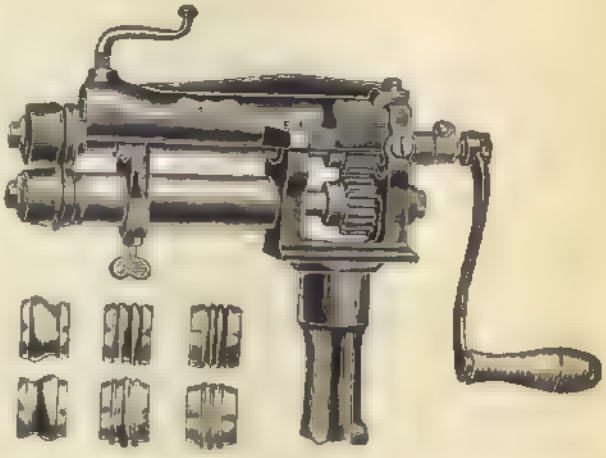
For No. 24 Iron and Lighter

Each

No. 555—For Seams up to ⅛ in., with Standard, Weight Each 21 Lbs. $9.75

This machine is adapted for light work and for seams of vessels that are of a uniform character.

STOW'S PATENT BEADING MACHINES



For No. 26 Iron and Lighter

Each

No. 1—6 in. Throat, with 4 Pairs of Rollers and Standard, Weight Each 50 Lbs. $19.75

Size of Beads: Ogee ⅝ in., Triple ⅜ in., Triple Coffee Pot ½ in., Single ⅛ in.

Each

No. 5—4 in. Throat, with 5 Pairs of Rollers and Standard, Weight Each 37 Lbs. $16.75

Size of Beads: Astragal $\frac{1}{16}$ in., Ogee $\frac{1}{16}$ in., Triple Coffee Pot ⅜ in., Single ⅛ in., Double ⅛ in.

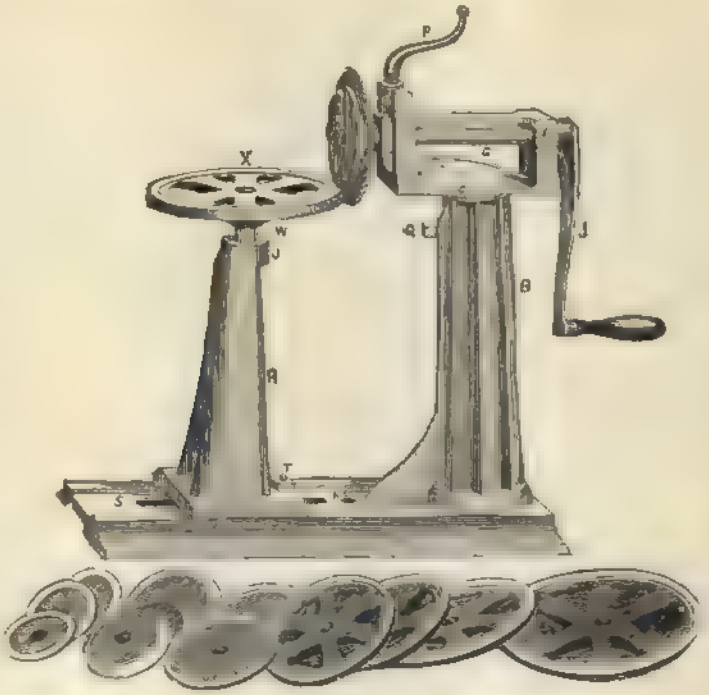
Above illustration shows machine with single beading rolls attached. The three pairs of rolls, detached and shown in the cut from left to right, are Ogee, Triple and Triple Coffee Pot bead.

Note—Not Carried in Stock, Shipped Direct from Factory

TINNERS' MACHINES

HULBERT'S PATENT DOUBLE SEAMING MACHINES

These machines are adopted to all kinds of flaring and straight work, for coffee and tea pots, oval and round boilers, etc

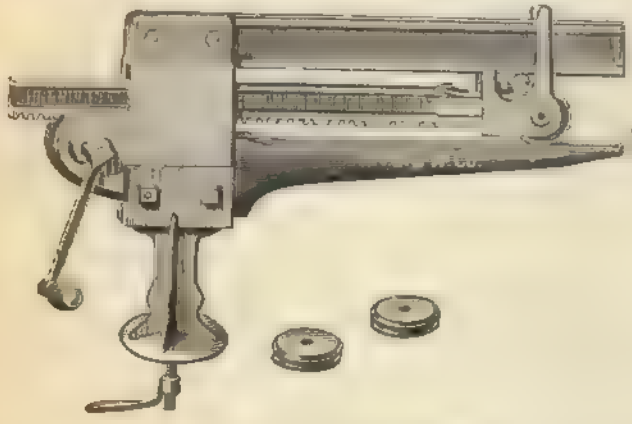


No 1 has a deflector by which bottoms can be deflected after they are double-seamed, adding both strength and durability to the vessel.

For No. 26 Iron and Lighter

	Each
No 1 With Deflector for Work 14 in. in Depth, with Ten Bases and Four Faces, Five Straight Discs 4⅛, 5¾, 6¼, 8⅛ and 10¼ in. Diameter, Four Flaring Discs 4⅛, 7¼, 8⅞ and 11½ in. Diameter, One Oval Disc 5⅞ in. Diameter, Weight Each 128 Lbs.	$27.00
No. 2—Without Deflector, Otherwise Same as No. 1, Weight Each 125 Lbs.	25 00

BRASS MOUNTED GROOVING MACHINES

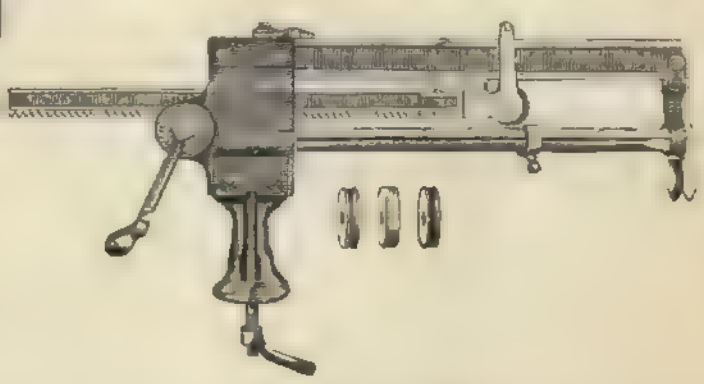


For No. 24 Iron and Lighter

	Each
No. 01—20 in. Long, 3 Grooving Rolls, One Each ⅛, ¼ and ½ in., with Standard, Weight Each 100 Lbs.	$13.50

This machine is constructed with steel bar and milled horn, easy to operate and simple in construction.

IMPROVED GROOVING MACHINES



For No. 22 Iron and Lighter

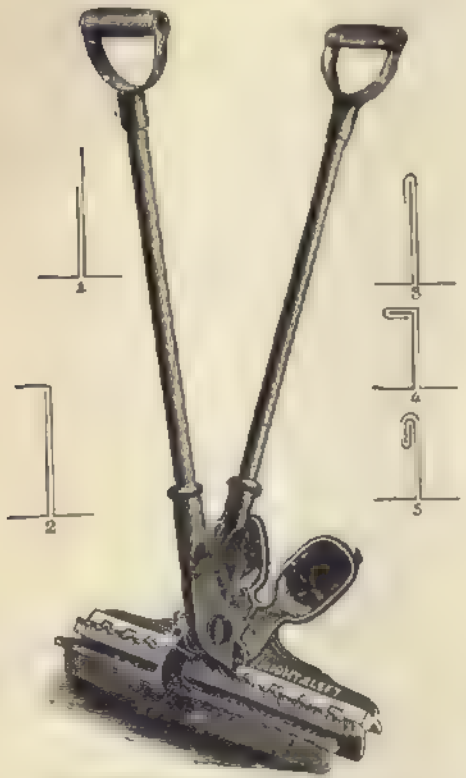
	Each
No. 120—30 in. Long, 3 Grooving Rolls, One Each ¼, ⅜ and ½ in., Also One Smooth or Flattening Roll, Weight Each 110 Lbs.	$18.00

This Groover is adapted for grooving the seams of furnace and leader pipe, sheet iron, can bodies, etc. Pipe can be grooved as small as 2 in. in diameter.

Note—Not Carried in Stock, Shipped Direct from Factory

TINNERS' TOOLS

BURRITT'S DOUBLE SEAMERS



For Standing Lock, Fitted for I. C. Tin

Per Set of 2 Pairs

*No. 742—Length Over All 30 in., Length of Jaws 15 in., Wrought Iron Pipe Handles, Weight Per Set 46 Lbs. $30 00

*Note—When ordering, always specify if wanted for common or wide gauge. Common gauge to follow 1 and 1¼ in tongs, finishing a lock ⅝ in. high; wide gauge to follow 1¼ and 1½ in. tongs, finishing a lock 1 in. high

ROOFING TONGS

Each

No. 7—Common, Size of Steel 1, 1¼ and 1½ in., Average Weight Each 15 Lbs. $3 00
5 50

Note—When ordering, always state size of lock wanted.

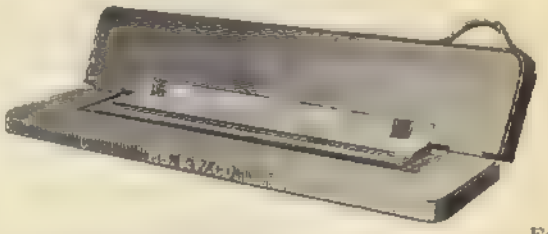
ROOFING DOUBLE SEAMERS

Per Set of 2

No. 4—Made to Match Roofing Tongs of the Following Sizes, ½x¾ in., ¾x1 in., 1x1¼ in., 1¼x1½ in., and 1½x1¾ in., Weight Per Set 7 to 19 Lbs. . $1.75

Note—When ordering, state sizes wanted

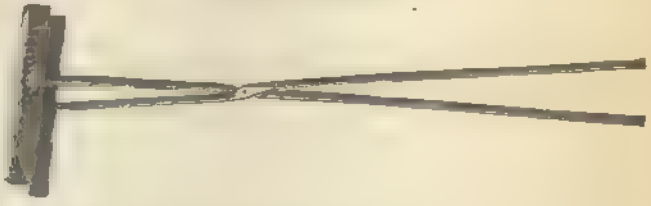
WOOD ROOFING FOLDERS



Each

No. 123—30 in. Long, Hinged Wood Wings, Steel Blades, with Gauge, for Flat Seam Tin Roofing, Weight Each 25 Lbs. $5.00

GUTTER TONGS



Each

Gutter Tongs—14 in. Steel Blades, for Turning Up Gutter, Square Pans, Etc., Weight Each 9 Lbs. $5.00
0.00

ROOFING TONGS

Each

No. 00—Stow's Improved, Adjustable to Turn Five Different Widths of Locks, from ½ to 1½ in., Weight Each 9 Lbs. $4 00
7 50

Adapted to bending all kinds of ordinary sheet metal.

TINNERS' TOOLS

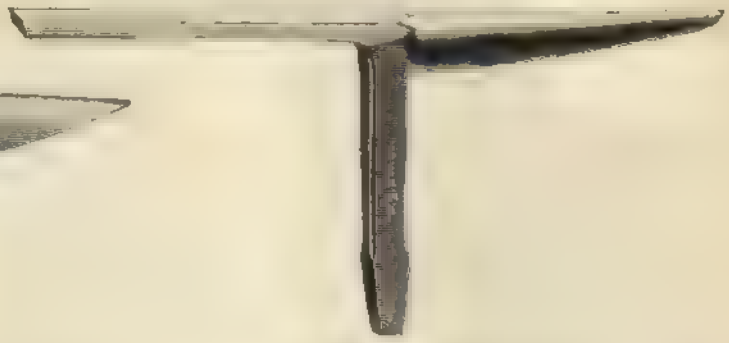
STAKES

BLOWHORN

Wrought Iron, Steel Face

	Each
No. 25—Small End 17½ in. Long, Large End 9 in. Long	$5.00
Weight Each 19 Pounds	

BEAKHORN



Wrought Iron, Steel Face

	Each
No. 1—20 in. Square Arm, 18 in. Round Arm, Weight Each 45 Lbs.	$15.00
No. 2—19 in. Square Arm, 17½ in. Round Arm, Weight Each 40 Lbs.	13.25

CANDLE MOULD

Wrought Iron, Steel Face

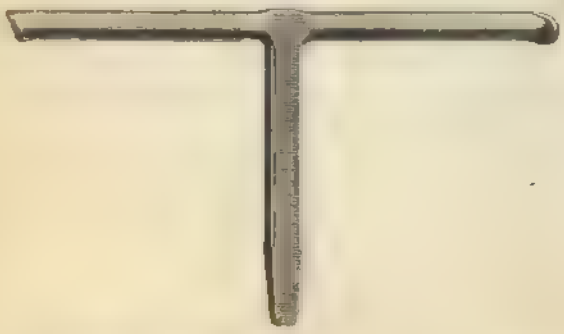
	Each
No. 56—Small End 18 in Long Horn 8½ in Long	$2.75
Weight Each 6½ Pounds	

NEEDLE CASE

Wrought Iron, Steel Face

	Each
No. 57 Flat End 8 in Long Small End 10½ in. Long	$2.25
Weight Each 4 Pounds	

DOUBLE SEAMING



Wrought Iron, Steel Face

No.	21
Large End, Inches	17
Small End Inches	12
Weight Each, Lbs.	34
Each	$9.00

HATCHET

Wrought Iron, Steel Face

Nos.	42	43	44
Blade Inches	14½	13	11
Wt Each, Lbs.	12	9	6
Each	$4.25	$3.50	$2.75

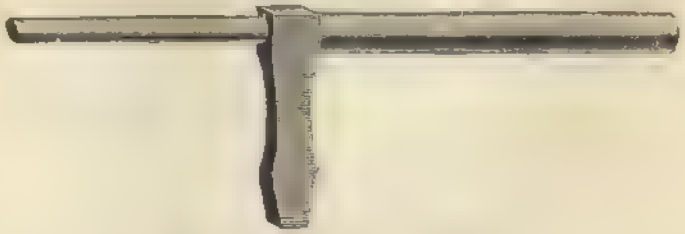
SQUARE

Wrought Iron, Steel Face

Nos.	38	39
Face, Inches	2⅝x4½	1½x2⅜
Wt Each, Lbs.	11	3
Each	$3 00	2 00

TINNERS' TOOLS

CONDUCTOR STAKES



Cast Iron, Polished Faces, Turned

	Each
No. 71—Large End 15 in Long, Small End 11½ in. Long, Weight Each 30 Lbs.	$4.00
No. 72—Large End 14 in. Long, Small End 10 in. Long, Weight Each 20 Lbs.	3.00

MANDREL STAKES

Cast Iron, Polished Faces

Nos.	60	61	62	63
Length of Standard	3 ft. 4 in.	2 ft. 10 in.	2 ft. 6 in.	2 ft. 3 in.
Weight Each, Lbs.	86	56	43	30
Each	$6.00	5.00	4.00	3 00

DOUBLE SEAMING STAKES, WITH FOUR HEADS

Wrought Iron

	Each
No. 49—With Four Heads, One Each Round, Square, Oblong and Oval, Weight Each 35 Pounds.	$9.00

HOLLOW MANDREL STAKES

Wrought and Cast Iron, with Clamp

	Each
No. 11—3 ft. 4 in. Long, Flat Part 9 in. Long, 6 in. Wide, Oval Part 31 in. Long, Weight Each 45 Lbs.	$5 50

STOVE PIPE MANDRELS

	Each
No. 0—Cast Iron, Unpolished, 36 in. Long, 4½ in. Wide, Weight Each 38 Lbs.	$6.00

HUEY & PHILP HARDWARE COMPANY.

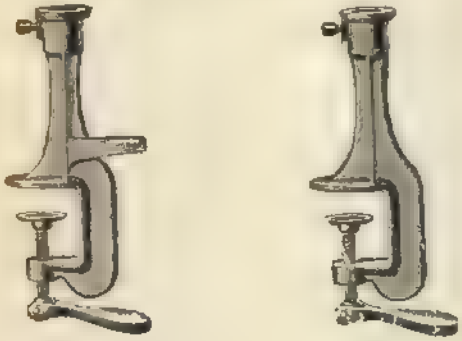
TINNERS' TOOLS

BENCH PLATES

Cast Iron, Planed Surface

Nos.	0	1	2
Size, Inches	48x12	37x8	30x8
Weight Each, Lbs.	94	55	40
Each	$9.00	5.00	3.00

MACHINE STANDARDS



No. 60 No. 61

For Columbian and P. S. & W. Co.'s Encased Machines

Each

No. 60—Wiring Machine Standard, Weight Each 12 Lbs. $1.00

No. 61—Regular Machine Standard, Weight Each 11 Lbs. 1.00

These improved Standards are so made as to be used on any bench varying in thickness from 1 to 3½ in. The necessity of cutting holes in the benches is obviated, and the mechanic is enabled to use a machine in any part of his shop most convenient to his work. The wrench is always attached to the Standard.

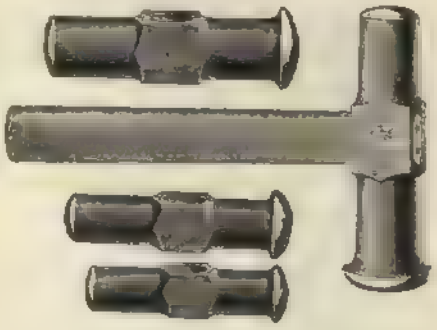
WIRE GAUGES

English Standard, Cast Steel

Per Dozen

No. 1—Large, Nos 9 to 36 ..... $24.00
No. 2—Small Nos 6 to 36 ..... 15.00

RAISING HAMMERS

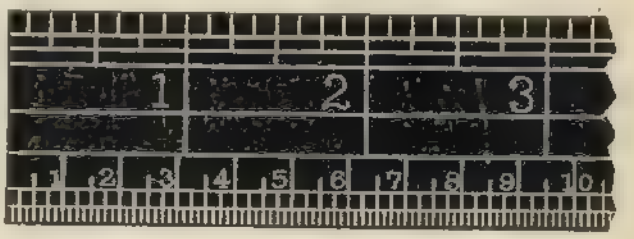


Cast Steel, Polished Faces, with Handle

Nos.	1	2	3	4
Faces, Inches	1⅝, 2⅜	1½, 2¼	1⅜, 1¾	1, 1⅜
Weight Each, Lbs.	5	3¾	2¼	1¼
Each	$2.35	1.85	1.35	.85

Note—For Tinners' Hammers, See Page 308

TINNERS' STEEL RULES



Each

No. 101—3 ft. Long, 1¼ in. Wide, Polished $3.50
No. 107—3 ft. Long, 1¼ in. Wide, Nickel Plated .. 4.00

One side circumference rule; opposite side table of measurements, as follows.

Liquid Measure—Flaring, ¼ pint to 5 gallons.
Dry Measure—Flaring, ¼ bushel to 2 bushel.
Cans—Pitched Top, 1 gallon to 10 gallons.
Cans—Flat Top, 1 gallon to 200 gallons.
Dry Measure—Straight, 1 quart to 3 bushels.

This Tinners' Rule is an invaluable article for any practical tinner, and the cut is an exact representation so far as shown.

TINNERS' TOOLS

HOLLOW PUNCHES

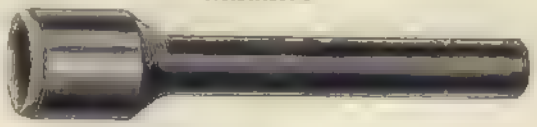
P. S. & W. CO.'S

Size 1¼ in. and Smaller, Forged Steel

Size Larger than 1½ in., Wrought Shank

Size, Inches	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2
Each	$0.70	.70	.80	1.00	1.20	1.50	1.70	2.00	2.50	2.80	3.90

NIAGARA



Forged Steel, Polished Barrel, Wrought Shank

Size, Inches	⅜	½	⅝	¾	⅞	1	1¼	1½	1¾	2
Each	$0 60	.70	.70	.80	1.00	1 30	1 50	1 70	2 00	2 40	3 50

HAND GROOVERS

Forged Steel

Nos.	00	0	1	2	3	4
Groove, Inches	½			⅝		¼
Each	$0 75	75	63	63	.50	.50
	1 20	1.20	1.00	1.00	.90	.90

WIRE CHISELS

Best Cast Steel

Width, Inches	⅜	½	⅝	¾	1
Each	$0.09	.10	.11	.12	.14
Per Dozen	1.20	1.30	1.50	1.70	2 00

LANTERN CHISELS

Best Cast Steel

Inches	⅜	½	⅝	1
Each	$0 09	10	11	14

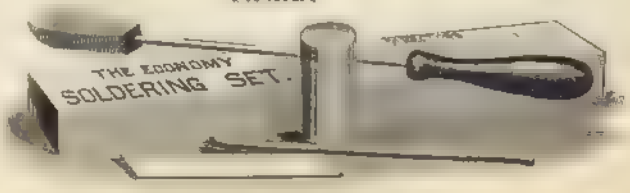
SOLDERING COPPERS

Drawn Copper Bolts, Sharp Point, Forged

Weight Per Pair, Lbs.	1	1½	2	3	4	6	8	10	12
Per Pound	$0 62	.56	54	50	50	50	50	50	50

SOLDERING SETS

FAMILY



Per Dozen Sets

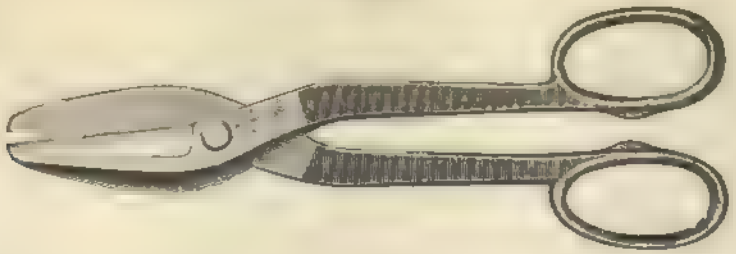
No. 1—Small Size, Comprising One Soldering Iron, One Piece Solder, One Box Resin, and One Tin Scraper, Complete in a neat Box.....$3.60

No. 2—Large Size, Comprising One Three Ounce Soldering Iron, One Piece of Triangular Solder, One Box Resin, and One Tin Scraper, Complete in a Lock Corner, Slide Cover Wood Box..... 9 00

TINNERS' TOOLS

HAND SHEARS OR SNIPS

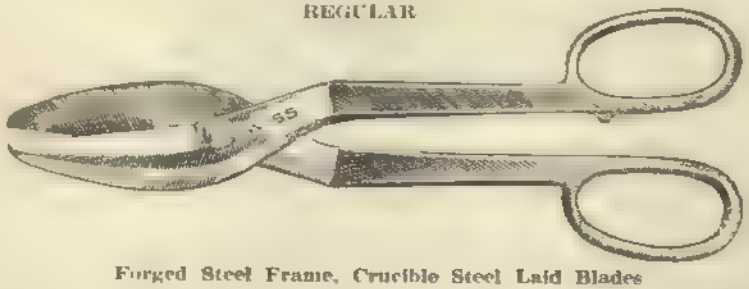
STAR



Per Dozen

Star—Cast Iron, Straight, 2½ in. Cut, Length 11½ in., Weight Per Pair 1½ Lbs..... $9 60
A Shear to meet the requirements of the trade, with Polished Blades and Japanned Handles

REGULAR



Forged Steel Frame, Crucible Steel Laid Blades

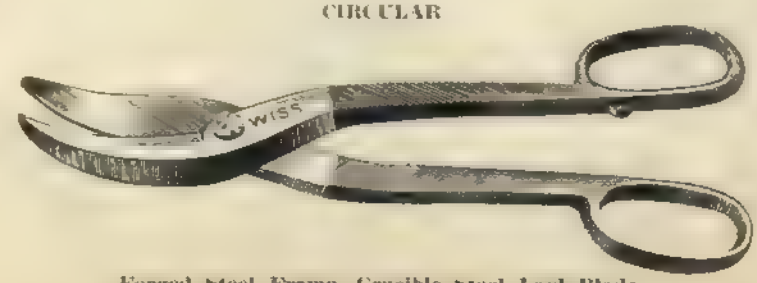
Nos.	7	8	9	10	11	12
Length, Inches	14½	13¾	12½	11½	9½	8
Cut, Inches	4	3½	3	2½	2¼	2
Weight Each, Lbs.	2½	2	1¾	1¼	¾	½
Each	$2 50	2 10	1 50	1 40	1 20	1 00
	3 50	2 80	2 20	2 00	1 80	1 50

COMBINATION

Combination Pattern, Forged Steel Frame, Crucible Steel Laid Blades

Nos.	17	18	19	100
Length, Inches	14½	13½	12½	11½
Cut, Inches	4	3½	3	2½
Weight Each, Lbs.	2½	2	1½	1¼
Each	$3 10	2 50	2 10	1 80
	3 50	3 00	2.50	2 50

CIRCULAR



Forged Steel Frame, Crucible Steel Laid Blades

Nos.	6½ CB	7CB	8CB	9CB	10CB
Length, Inches	15¾	14½	13¾	12½	11½
Cut, Inches	4½	4	3½	3	2½
Weight Each, Lbs	3¼	2½	2	1¾	1½
Each	$4 50	3 50	3 10	2 50	2 25
	6 00	4.50	4 00	3 30	3 00

TINNERS' TOOLS

SAMSON HAND SHEARS OR SNIPS

Forged from the Best Material, Steel Laid, Accurately Fitted, Serviceable and Durable

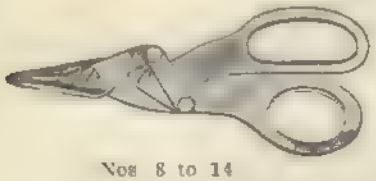
Nos.	47	48	49	50
Length, Inches	14½	14	12¾	11
Cut, Inches	4	3½	3	2½
Weight Each, Lbs.	2½	2	1⅝	1¼
Each	$2 50	2 00	1.50	1.40
	3 00			

DOUBLE CUTTING SHEARS AND PIPE CRIMPER

	Each
No. 2—13 in. Long, 2 in. Cut, Wrought Iron Handles, Bright Steel Blade and Crimper. Weight Each 2 Lbs.	$3 50
	1 00

The blade is pointed and readily inserted in the metal at the point desired to begin the cutting. Adapted to cutting off the bottoms of pails, cans, etc., and suitable for cutting round or square work. The crimping attachment is designed for crimping any kind of sheet metal pipe, round or square.

COMPOUND LEVER SNIPS



Nos 8 to 14

No. 7

Forged from Solid Crucible Steel, Carefully Made, Tempered and Ground

Nos.	7	8	10	12	14
Length of Cut, Inches	1¼	1⅝	2½	3	3½
Length Over All, Inches	7	8	10½	12	14
Weight Each	5 oz.	10 oz.	1⅛ lbs.	2 lbs. 2 oz.	2 lbs. 9 oz.
Each	$2 00	2.50	4.00	5.30	6.00

No 7, a Vest Pocket Snip has the purchase to cut 18 gauge, strength to cut 20 to 22 gauge, but should not be used for heavier than 24 gauge

No. 8 Snip will cut 16 gauge at the hinge or 18 gauge the full length of the blades.

No. 10 Snip is highly appreciated by furnace men, cornice makers, etc.

No. 12 Snip is big and strong enough for any and all purposes.

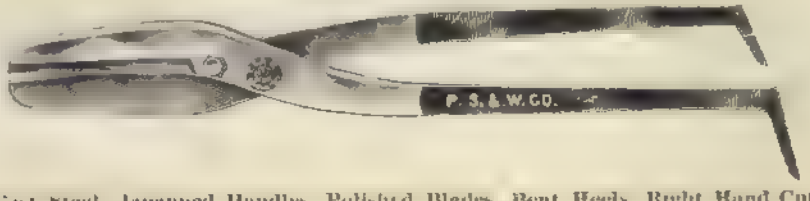
No. 14 Snip is intended for those wishing a larger Snip for bench work.

The compound leverage is so arranged as to equally distribute the cutting power, the full length of the blade

COMBINATION PIPE FITTERS

	Each
No. 31—Steel Working Parts, Will Make a 1 in. Crimp on Metal as Heavy as No. 24 Gauge, and Will Cut Metal as Heavy as No 18 Gauge, Weight Each 2¼ Lbs.	$4 25

*BENCH SHEARS



Cast Steel, Japanned Handles, Polished Blades, Bent Heels, Right Hand Cut

Nos.	00	0	1	2	3	4	5	6
At Inches	12	10½	9	8⅛	8⅛	8	7	6
Length Over All, Inches	44	41	37	34	31	30	27	25
For Cutting Iron, Inches	18	18	19	20	19	20	21	22
Weight Each, Lbs.	35	30	25	20	15	13	9	8
Each	$13.50	12.00	8.00	7.00	6.00	5.00	4 00	3 50

Note—Bench Shears with a left hand cut can be furnished when desired at an additional cost

*Note—Not Carried in Stock, Shipped Direct from Factory

HUEY & PHILP HARDWARE COMPANY.

GASOLINE BLOW TORCHES

Each

No. 37—Capacity 1 Pint, Polished Brass.....$6 00

This Torch is fitted with an improved burner, which protects the gas or vapor from the wind or cold, as the orifice through which the gas passes is shielded by the burner tube, thus making it possible to keep the flame blue, and positive in heat intensity in almost any extreme of wind or weather. A patent automatic air pump with check valve is used, insuring the desired air pressure at all times

Weight Each 3½ Pounds
One in a Box

Each

No. 38—Capacity 1 Pint, Polished Brass. . . . $6 50

This Torch has every feature in construction and finish found in No. 37, with the exception that the burner is fitted with Hook and Support for holding soldering coppers, which makes it convenient for repair men

Weight Each 3¾ Pounds

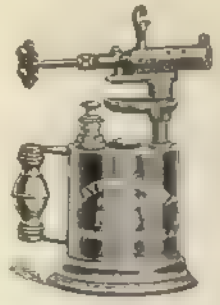
One in a Box

Each

No. 31—Capacity 1 Quart, Polished Brass.....$7.00

This Torch makes a perfect fire, whether employed indoors or out, in hard wind or extreme cold. A strong blast heat is generated by a powerful burner. Every desired adjustment is quickly made. A surprising small amount of gasoline is required compared with the results obtained in heat efficiency.

Weight Each 5 Pounds
One in a Box



Each

No. 32—Capacity 1 Quart, Polished Brass . . . $7 50

This Torch has every feature in construction and finish found in No. 31, with the exception that the burner is fitted with Hook and Support for holding soldering coppers, which makes it convenient for repair men.

Weight Each 5 Pounds
One in a Box

Each

No. 49—Capacity 1 Quart, Polished Brass, Weight Each 5 Lbs.....$4.50

No. 50—Fitted with Hook and Support for Holding Soldering Coppers, Weight Each 5¼ Lbs. 5.00

This Torch has a good burner mounted in the center of the tank. It is well balanced and will give good satisfaction

One in a Box

Soldering Copper Attachment

Each

No. 56—Capacity 1 Pint, Polished Brass . . $4.00

This Torch is fitted with attachment for holding soldering coppers. The Pump has check valve which closes off the air automatically after each stroke of the plunger.

Weight Each 4¼ Pounds

One in a Box

POCKET KNIVES

I*XL GEORGE WOSTENHOLM & SON, SHEFFIELD, ENGLAND

TWO BLADE PENS

Sleeve Board Pattern. Length 2⅞ inches, Uncapped. One Large Spear and One Small Pen Blade, Full Polished, Brass Lining, No Shield. Weight per Dozen 8 ozs.

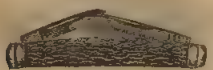
Per Dozen

No. B2092—Pearl Handle **$18 70**

Congress Pattern; Length 3 inches, Uncapped, Two Small Pen Blades, Full Polished Brass Lining, No Shield. Weight per Dozen 6 ozs.

Per Dozen

No. B5805—Pearl Handle **$20 10**



Congress Pattern. Length 2⅞ inches, Polished Steel Rat Tail Bolsters. One Large Congress and One Small Pen Blade Glazed Brass Lining; No Shield; Weight per Dozen 8 ozs.

Per Dozen

No. B3152—Patent Stag Handle **$13 80**

Congress Pattern, Length 3⅛ inches, Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade Glazed Brass Lining; No Shield, Weight per Dozen 10 ozs.

Per Dozen

No. B3153—Patent Stag Handle **$14 30**

Sleeve Board Pattern. Length 3⅛ inches, Uncapped. One Large Spear and One Small Pen Blade, Full Polished, Brass Lining, No Shield, Weight per Dozen 12 ozs.

Per Dozen

No. B3094—Pearl Handle **$20 15**

Baloon Pattern, Length 3½ inches. Polished Steel Rat Tail Bolsters, One Large Spear and One Small Pen Blade, Glazed Brass Lining, German Silver Shield; Weight per Dozen 20 ozs

Per Dozen

No. B2940—Patent Stag Handle..... **$30 90**

Sleeve Board Pattern, Length 3¼ inches, Uncapped, One Large Spear and One Small Pen Blade Full Polished, Brass Lining, No Shield Weight per Dozen 14 ozs.

Per Dozen

No. B2017 Buffalo Horn Handle	**$13 85**
No. B2018—Ivory Handle	**16 85**
No. B2060—Genuine Stag Handle	**16 85**
No. B3044—Pearl Handle	**20 70**

Sleeve Board Pattern, Length 3⅜ inches, German Silver Tipped; One Large Spear and One Small Pen Blade Full Polished Brass Lining; No Shield; Weight per Dozen 16 ozs.

Per Dozen

No. B2064—Genuine Stag Handle	**$15 40**
No. B2068—Pearl Handle	**30.80**

Congress Pattern. Length 3¼ inches, Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Glazed, Brass Lining; No Shield, Weight per Dozen 16 ozs

Per Dozen

No. B2155—Patent Stag Handle **$15 50**

Congress Pattern. Length 4 inches, Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade, Glazed, Brass Lining No Shield; Weight per Dozen 1¾ lbs.

Per Dozen

No. B2156—Patent Stag Handle. **$17.60**

Half Dozen in a Box

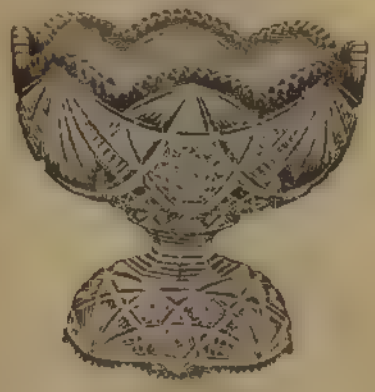
AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

We call attention to the excellence of our Cut Glass. The designs are carefully prepared and the shapes are selected with the idea of having all the patterns in the best and most popular shapes for cutting. The depth of the cuts of the cutting is such that the glass is made to show a fine sparkle. For purity of glass and brilliancy of cutting our assortment of patterns has no equal.

THE LATEST AND MOST POPULAR SHAPES.

PUNCH BOWLS.



BELLE DESIGN

WITH FOOT: 6 Quarts; Height 11 in.; Diameter of Bowl 12 in.

No. 6015—PUNCH BOWL, WITH FOOT, Weight each about 14 lbs. ..... Each $47.00

ST. LOUIS DESIGN

4 Quarts; Height 10 in.; Diameter of Bowl 10 in.

No. 8210—PUNCH BOWL, WITH FOOT, Weight each about 8 lbs. ..... Each $22.00

Packed Loose.

COMBINATION BOWL AND COMPOTE.

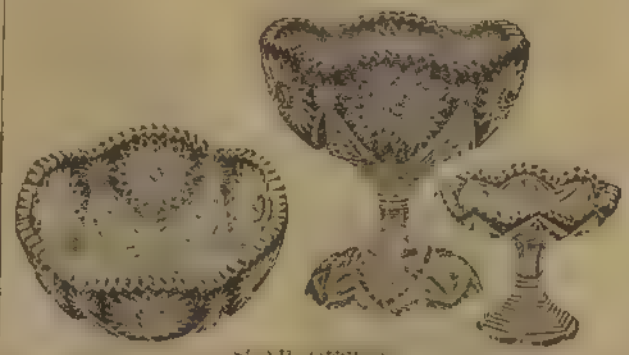
ECHO DESIGN

Diameter of Bowl 8 in.; Diameter of Compote 6 in. Height of Compote 6 in.; Height over all, Bowl and Compote 9¼ in.

No. 1836—COMBINATION BOWL, FRUIT BOWL AND COMPOTE ..... Each $18.00

Weight each about 5 lbs.

COMBINATION BOWL AND COMPOTE.



STAR DESIGN.

Diameter of Bowl 8 in.; Diameter of Compote 6 in. Height 5¾ in.; Height over all, Bowl and Compote 9¼ in.

No. 6829—COMBINATION BOWL, FRUIT BOWL AND COMPOTE ..... Each $12.00

Weight each about 5 lbs.

BERRY OR ICE CREAM SETS.

PHEASANT DESIGN

8 Pieces; Consists of One 8 in. Pheasant Bowl No. 5[illegible], ½ dozen 8 in. Unhandled Pheasant Nappies No. 6[illegible], and 1 One KEEN KUTTER Carnation Berry Spoon No. K81.

No. 1—BERRY OR ICE CREAM SET ..... Each $23.00

STERLING DESIGN

8 Pieces; Consists of One 8 in. Sterling Bowl No. 6[illegible], ½ dozen 8 in. Unhandled Sterling Nappies No. 6[illegible], and One KEEN KUTTER Carnation Berry Spoon No. K81.

No. 4—BERRY OR ICE CREAM SET ..... Each $22.00

PALM DESIGN

8 Pieces; Consists of One 8 in. Bowl No. 2[illegible], ½ dozen 8 in. Unhandled Nappies No. 1869, and One KEEN KUTTER Carnation Berry Spoon No. K81.

No. 2—BERRY OR ICE CREAM SET $22.00

AMERICAN CUT GLASS.

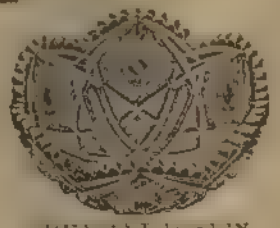
GUARANTEED FIRST QUALITY.

BOWLS

ROYAL DESIGN

Each

No. 6019—BOWL; Diameter 8 in..$9.00
No. 6020—BOWL; Diameter 9 in..11.00



PEKIN DESIGN

No. 5108—BOWL; Diameter 8 in. 8.00
No. 5109—BOWL; Diameter 9 in..11.00

STERLING DESIGN.

Each

No. 6001—BOWL; Diameter 8 in. $6.00

PALM DESIGN

No. 2504—BOWL; Diameter 8 in..$6.50

EMPRESS DESIGN.

Each

No. 6032—BOWL; Diameter 8 in..$6.50

PRINCE DESIGN.

Each

No. 6024—BOWL; Diameter 8 in..$3.75

Packed Loose

Weight Each about 5 lbs.

BOWLS.

SPECIAL DESIGN.

Each

No. 6016—BOWL; Diameter 8 in $4.50
No. 6017—BOWL; Diameter 9 in.. 5.50

Weight each about 5 lbs.

FRUIT BOWL.

RADIANT DESIGN

Lehgth 11 in.; Width 7¾ in.

Each

No. 6021—FRUIT BOWL.....$11.00

NUT BOWL.

BRAZILIAN DESIGN

Diameter 6¼ in.

Each

No. 6018—NUT BOWL.... $15.00

ICE CREAM TRAYS.

NEVADA DESIGN

Length 14 in.; Width 5½ in.

Each

No. 1871—ICE CREAM TRAY...$11.00

MAINE DESIGN

Length 12 in.; Width 7¾ in.

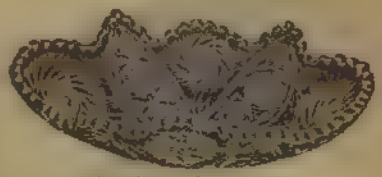
Each

No. 1853—ICE CREAM TRAY....$7.50

Packed Loose

Weight Each about 3 lbs

CELERY TRAYS.



REFLECTOR DESIGN

Length 11½ in.; Width 4⅝ in.

Each

No. 5210—CELERY TRAY.....$7.50

STERLING DESIGN

Length 11 in.; Width 4⅛ in

Each

No. 6008—CELERY TRAY. $3.00

EMPRESS DESIGN

Length 12 in Width 4⅛ in

Each

No. 6031—CELERY TRAY.....$6.00

[illegible] DESIGN

Length 11¾ in [illegible] in

Each

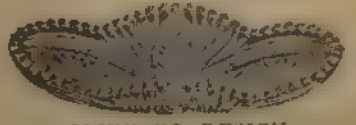
No. 5208—CELERY TRAY . $4.50

EASTON DESIGN

Length 10¾ in.; Width 4⅛ in.

Each

No. 5214—CELERY TRAY.....$3.50



CLIFFORD DESIGN.

Length 11 in.; Width 4⅝ in

Each

No. 1851—CELERY TRAY.....$3.50

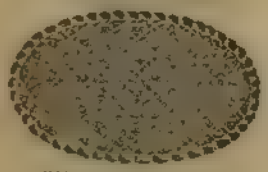
Packed Loose

Weight Each about 3 lbs.

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY

SPOON TRAYS.



STERLING DESIGN
Length 8 in.; Width 4¾ in.
Each
No. 6007 — SPOON TRAY $3.50

STELLA DESIGN
Length 7 in.; Width 3⅝ in.
Each
No. 6006 — SPOON TRAY $2.50

CLIFFORD DESIGN.
Length 7 in.; Width 3⅝ in.
Each
No. 5224 — SPOON TRAY $1.80

RELISH DISHES.

MAINE DESIGN
Each
No. 1805—RELISH DISH. Handled; 2 PART; Diameter 6 in. $3.50
No. 1806—RELISH DISH. Handled; 3 PART. Diameter 7 in. 4.50

MAYONNAISE BOWL AND PLATE.

NEWCASTLE DESIGN.
Diameter of Bowl 5 in. Diameter of Plate 7¾ in. Height over all 3¾ in.
Each
No. 1849—MAYONNAISE BOWL AND PLATE $7.00

ISABELLA DESIGN.
Diameter of Bowl 6 in.; Diameter of Plate 6½ in. Height over all 3½ in.
Each
No. 2502—MAYONNAISE BOWL AND PLATE. $4.50
Weight Each about 1½ lbs.
Packed Loose

OLIVE OR BON BON DISHES.

LEO DESIGN
5¾ in. Long; 5 in. Wide at Center
Each
No. 6028—OLIVE OR BON BON DISH. Handled $4.00

CORINTH DESIGN
6¾ in. Long, 5¼ in. Wide at Center.
Each
No. 1837—OLIVE OR BON BON DISH; Handled $4.00

ANDERSON DESIGN
6 in. Long, 6 in. Wide at Center
Each
No. 1854—OLIVE OR BON BON DISH $3.00

DELA [illegible]SIGN
7¾ in. Long, 4¾ in. Wide at Center
Each
No. 5041—OLIVE OR BON BON DISH $2.50
Weight Each about 1¼ lbs.

FOOTED FRUIT COMPOTE.

RIALTO DESIGN
Diameter of Bowl 8 in., Height 8⅛ in.
Each
No. 6027—FRUIT COMPOTE .. $10.00
Weight Each about 3 lbs
Packed Loose.

FOOTED COMPOTES.

MAINE DESIGN
Diameter of Bowl 5 in. Height 8 in.
Each
No. 6033—COMPOTE. $7.50

WALTHAM DESIGN
Diameter of Bowl 4 [illegible] in., Height 8 in.
Each
No. 6030—COMPOTE $7.00

[illegible]IN
Diameter of Bowl 6 in. Height 9 in.
Each
No. 2207 [illegible]MPOTE $6.50

CLIFFORD DESIGN
Diameter of Bowl [illegible] in.; Height 5 in.
Each
No. 1805—COMPOTE.. $3.00

PENN DESIGN
Diameter of Bowl 5 in.; Height 6½ in.
Each
No. 6025—COMPOTE. $3.00
Weight Each about 2 lbs.
Packed Loose.

FOOTED COMPOTES.

IRIS DESIGN.
Diameter of Bowl 8 in. Height 9 in.
Each
No. 1850—COMPOTE $5.50
Weight Each about 2 lbs.
Packed Loose.

FERN DISHES.

PALM DESIGN
With Nickel Plated Inside Bowl. Diameter of Plated Bowl 7¾ in., Diameter of Cut Glass Bowl 8 in.; Height 4 in.
No. 5129—FERN DISH. [illegible] $12.00

[illegible]SIGN
[illegible] Inside Bowl. Diameter of Plated Bowl 7¾ in., Diameter of [illegible] Glass Bowl 8 in.; Height 4 in.
No. 2205—FERN DISH [illegible] $12.00

CLIFFORD DESIGN.
With Silver Plated Inside Bowl.
Each
No. 2500—FERN DISH. Diameter of Plated Bowl 7¾ in.; Diameter of Cut Glass Bowl 8 in.; Height 4 in. $5.50
Weight Each about 4 lbs.
Packed Loose.

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

NAPPIES.

PALM DESIGN

Each

No. 5216—HANDLED NAPPY. Diameter 6 in. $3.50

PHEASANT DESIGN

Each

No. 5213—HANDLED NAPPY. Diameter 6 in. $3.50

NEVADA DESIGN

Each

No. 1931—HANDLED NAPPY. Diameter 5 in. $2.50

No. 1932—HANDLED NAPPY. Diameter 6 in. 3.50

CARNATION DESIGN

Each

No. 6026—HANDLED NAPPY. Diameter 6 in. $2.50

CEDAR DESIGN.

Each

No. 6011—HANDLED NAPPY. Diameter 6 in. $2.00

ANVIL DESIGN.

Each

No. 6012—HANDLED NAPPY. Diameter 5 in. $1.70

Weight Each about 1½ lbs.

NAPPIES.

NEVADA DESIGN

No. 1930—NAPPY. Diameter 6 in. $2.50

PHEASANT DESIGN

Each

No. 1871—NAPPY. Diameter 4 in. 2.20

No. 1872—NAPPY. Diameter 5 in. 1.30

No. 1873—NAPPY. Diameter 7 in. 4.50

PALM DESIGN

Each

No. 1869—NAPPY. Diameter 5 in. $2.50

No. 1870—NAPPY. Diameter 6 in. 4.00

SCHLITZ DESIGN

No. 6005—NAPPY. Diameter 6 in. $3.00

REX BUZZ DESIGN

Each

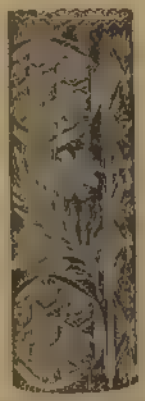
No. 6030—NAPPY. Diameter 5 in. $1.00

No. 6040—NAPPY. Diameter 6 in. 2.00

Packed Loose.

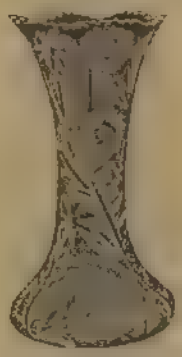
Weight Each about 1½ lbs.

VASES.



PLAZA DESIGN.

No. 6030—VASE. Height 12 in. ..... Each, $15.00



DAISY DESIGN.

Each

No. 2203—VASE. Height 10 in. $10.00

No. 2203½—VASE. Height 12 in. 13.00

JAVA DESIGN

Each

No. 1856—VASE. Height 10 in. ..... $ 7.00

No. 1857—VASE; Height 12 in. 9.00

No. 1858—VASE; Height 14 in. 13.00

Packed Loose.

Weight Each about 3 lbs.

VASES.

EXAMPLAR DESIGN

No. 6014—VASE. Height 7 in. ..... Each, $7.00

MINERVA DESIGN

Each

No. 5142—VASE. Height 8 in. $3.50

No. 5143—VASE; Height 10 in. 4.50

No. 5144—VASE. Height 12 in. 6.50

MINERVA DESIGN.

Height 6 in.; For Small Cut Flowers.

Each

No. 6035—VASE $4.00

DAISY DESIGN

No. 2206—VASE. Height 7 in. ..... Each, $3.50

DAISY DESIGN.

Height 5 in.; For Small Cut Flowers.

Each

No. 2211—VASE .. $1.00

Packed Loose;

Weight Each about 3 lbs.

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

SANDWICH TRAY.

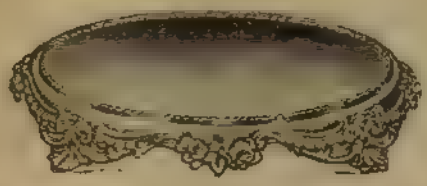
DAISY DESIGN

Diameter of Plate 12 in.; Height 1 in.

No. 2204 FOOTED SANDWICH PLATE. Weight Each about 3 lbs. ..... Each $13.00

Packed Loose

PLATEAUX MIRRORS.



Silver Plated White Metal Frame, Footed; Plate Glass Mirror.

Nos.	100 14	100 16
Inches	14	16
Weight each about, lbs	5	5
Each	$7.00	$9.00

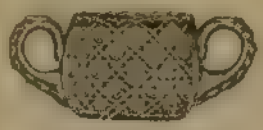
Packed Loose.

Nickel Plated Border, Plate Glass Mirror, Beaded.

Nos.	4001 14	4001 16	4001 18
Inches	14	16	18
Weight each about lbs	4	4	6
Each	$3.50	4.00	6.00

Packed Loose

SUGAR BOWLS.



STERLING DESIGN.

Height 3 in.; Diameter at Top 2¾ in.

No. 6000 SUGAR BOWL ..... Each $4.00

PHEASANT DESIGN

Height 3 in.; Diameter at Top 3 in.

No. 1838 SUGAR BOWL ..... Each $3.50

PALM DESIGN

Height 3¼ in.; Diameter at Top 3¼ in.

No. 5208 — SUGAR BOWL ..... Each, $3.50

CLIFFORD DESIGN

Height 3 in.; Diameter at Top 3½ in.

No. 1844 SUGAR BOWL ..... Each $3.50

IMPERIAL DESIGN

Height 3½ in.; Diameter at Top 3 in.

No. 6000 — SUGAR BOWL ..... Each, $2.00

WASHINGTON DESIGN.

Height 3 in.; Diameter at Top 2⅝ in.

No. 6038 SUGAR BOWL ..... Each $1.50

CREAM PITCHERS.

STERLING DESIGN.

Height 3 in.; Diameter at Top 2½ in.

No. 6000½—CREAM PITCHER ..... Each, $4.00

PHEASANT DESIGN

Height 3 in.; Diameter at Top 3 in.

No. 1838½—CREAM PITCHER ..... Each $3.50

PALM DESIGN

Height 3¼ in.; Diameter at Top 3¼ in.

No. 5208½—CREAM PITCHER ..... Each $3.50

CLIFFORD DESIGN

Height 3 in.; Diameter at Top 3½ in.

No. 1844½—CREAM PITCHER ..... Each $3.50

IMPERIAL DESIGN

Height 3¼ in.; Diameter at Top 3 in.

No. 6000½—CREAM PITCHER ..... Each $2.00

WASHINGTON DESIGN

Height 3 in.; Diameter at Top 2⅝ in.

No. 6038½—CREAM PITCHER ..... Each $1.50

Packed Loose; Weight Each about 1½ lbs.

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

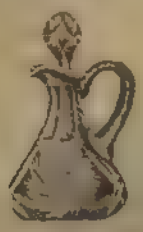
COLOGNE BOTTLES.

TRINITY DESIGN
Height 5½ in., Capacity 4 oz.
Each
No. 6002—COLOGNE BOTTLE.. $4.50
Height 6½ in., Capacity 8 oz.
No. 6003—COLOGNE BOTTLE.. $5.50

GLOBE SAPPHIRE DESIGN
Height 4 in. Capacity 2 oz.
Each
No. 6037—COLOGNE BOTTLE... $3.50

OIL BOTTLES.

PALM DESIGN
Height 6 in.; Capacity ½ Pint.
Each
No. 5128—OIL BOTTLE .. $5.00



GOTHIC DESIGN.
Height 6½ in.; Capacity ½ Pint
Each
No. 6022—OIL BOTTLE $3.50

NAPLES DESIGN.
Height 7 in.; Capacity ½ Pint.
Each
No. 5124—OIL BOTTLE $3.50
Packed Loose.
Weight Each about 1 lb

SALTS AND PEPPERS.

FANCY STERLING SILVER TOPS.
HEIGHT 3½ IN
Per Dozen
No. 813—Salts $18.50
No. 813½—Peppers 16.50

PLAIN STERLING SILVER TOPS
HEIGHT 3⅛ IN
Per Dozen
No. 812—Salts $12.50
No. 812½—Peppers 12.50

PLAIN STERLING SILVER TOPS.
HEIGHT 3 IN
Per Dozen
No. 810—Salts $9.50
No. 810½—Peppers 9.50
One-sixth Dozen in a Cardboard Box
Weight per Dozen about 4 lbs

PLAIN GERMAN SILVER TOPS.
HEIGHT 2⅝ IN
Per Dozen
No. 811—Salts $4.50
No. 811½—Peppers ..... [illegible]
[illegible] Dozen in a Cardboard Box.
Weight per Dozen about 3 lbs

PUNCH CUPS.

ALDINE DESIGN
Per Dozen
No. 1876—PUNCH OR LEMONADE CUP, ½ Pint..... $19.00

SHERBET GLASSES.

CLIFFORD DESIGN
½ Pint Height 3¼ in.
Per Dozen
No. 1878—SHERBET GLASS.... $19.00
Packed Loose
Weight per Dozen about 8 lbs

GOBLETS.

SENECA DESIGN
½ Pint, Height 6 in.
Per Dozen
No. 6043—GOBLET $17.00

TUMBLERS.

PALM DESIGN
Per Dozen
No. 5208—TUMBLER; ½ Pint $18.00

ST. LOUIS DESIGN
Per Dozen
No. 1877—TUMBLER; ½ Pint $17.00

CLIFFORD DESIGN
Per Dozen
No. 6042—TUMBLER; ½ Pint $14.00

DAISY DESIGN
Per Dozen
No. 2201—TUMBLER; ½ Pint .$11.00

CAESAR DESIGN.
Per Dozen
No. 6023—TUMBLER; ½ Pint..$10.00
[illegible]
Weight per [illegible] about 6 lbs

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

WATER BOTTLES.

STAR DESIGN
1 Quart, Height 8 in.
Each
No. 5608—WATER BOTTLE $7.00

CLARE DESIGN
Quart, Height 8 in.
Each
No. 6044 WATER BOTTLE $5.00

Packed Loose; Weight Each about 3 lbs.

WATER SETS

TANK DESIGN

Consists of Tankard No. 5074, 4 Pints; One-half dozen Half-pint Tumblers No. 5202, and Plateaux Mirror No. 4001/14

No. 4—WATER SET OF 8 PIECES ..... Per Set $24.00

PEEKSKILL DESIGN

Consists of Tankard No. 6044, 4 Pints; One-half dozen Half-pint Tumblers No. 1877, and Plateaux Mirror No. 4001/14.

No. 14—WATER SET OF 8 PIECES ..... Per Set $23.00

Packed Loose; Weight per Set about 12 lbs

WATER SETS.

SENECA DESIGN

Consists of Tankard No. 6044, 4 Pints; One-half dozen Half-pint Goblets No. 6044, and Plateaux Mirror No. 4001/14

No. 12—WATER SET OF 8 PIECES ..... Per Set $23.00

ARBUTUS DESIGN

Consists of Tankard No. 6010, 4 Pints; One-half dozen Half-pint Tumblers No. 6042, and Plateaux Mirror No. 4001/14

No. 13—WATER SET OF 8 PIECES ..... Per Set $19.00

CLARE DESIGN.

Consists of Tankard No. 6044, 4 Pints; One-half dozen Half-pint Tumblers No. 6023, and Plateaux Mirror No. 4001/14.

No. 10—WATER SET OF 8 PIECES ..... Per Set $19.00

Packed Loose; Weight per Set about 12 lbs.

AMERICAN CUT GLASS.

GUARANTEED FIRST QUALITY.

WATER SETS.

DAISY DESIGN

Consists of Tankard No. 2400, 2 Pints; One-half dozen Tumblers No. 2201 and Plateaux Mirror No. 4001/14.

Per Set

No. 2—WATER SET OF 8 PIECES.....$14.00

BROOKLYN DESIGN

Consists of Tankard No. 6013, 2 Pints; One-half dozen Half-pint Tumblers No. 6023 and Plateaux Mirror No. 4001/14.

Per Set

No. 11—WATER SET OF 8 PIECES.....$13.00

Packed Loose, Weight per Set about 12 lbs

CAMILLE DESIGN

Consists of Water Bottle No. 6034, 1 Quart; One-half dozen Half-pint Tumblers No. 6023, and Plateaux Mirror No. 4001/14.

Per Set

No. 7—WATER SET OF 8 PIECES.....$11.00

Packed Loose; Weight per Set about 10 lbs

TANKARDS.

PEEKSKILL DESIGN.

Each

No. 6044 TANKARD; 4 Pint.....$11.00

PALMETTE IN

Each

No. 5074—TANKARD; 4 Pint.....$11.00

ARROW DESIGN

Each

No. 6016 TANKARD; 4 Pint.....$10.00

TANKARDS.

CHELSEA DESIGN

Each

No. 5134 TANKARD; 1 Pint.....$5.00

DAISY DESIGN.

Each

No. 2200—JUG; 3 Pint.....$1.50

BROOKLYN DESIGN.

Each

No. 6013—TANKARD; 3 Pint.....$

Packed Loose; Weight Each about 6 lbs

THE MARK

E. C. SIMMONS
KEEN KUTTER
CUTLERY AND TOOLS

AND

THE MOTTO

"The Recollection of QUALITY Remains long after the PRICE is forgotten."

Trade Mark Reg. in U. S. Pat. Office. —E. C. SIMMONS

Society of Automobile Engineers Discuss Cyclecar Development

POSSIBILITIES and prospective developments in the cyclecar field were discussed by members of the Metropolitan Section of the Society of Automobile Engineers at the regular monthly meeting at the society headquarters in New York City, Thursday evening, October 30, with an earnestness that reflected the intense interest of all automobile men in the little machines at the present time. That there is a field for the cyclecar was questioned by one or two of those present, who contended that the present low-priced automobile and the motorcycle in their respective realms are all sufficient, and that there is not room between them for another type of self propelled vehicle. It was the opinion of the majority of the speakers, however, that a distinct and very large demand for an intermediate style will develop as soon as suitable products are offered, but whether such products will partake more of automobile than of cycle features is a question that remained unsettled after several hours' debate in which a large number of the one hundred and twenty-five members and guests participated.

One of the points concerning which a difference of opinion arose was that of tread width. By two or three speakers it was contended that a vehicle of less than standard gage cannot successfully negotiate American country highways, while others were equally insistent that the narrow tread is no bar to the service for which the cyclecar is properly suited, namely, that of running over the streets and boulevards of cities and towns and the adjoining highways, which are usually free from ruts and which are constantly improving. W. Irving Twombly, one of the several cyclecar builders present, proved a vigorous champion of the narrow-tread vehicle, arguing that it is unsuitable for touring, but is distinctly suited for town and suburban work, where its narrow width greatly facilitates progress through traffic.

John R. Cautley, an expert on chains, spoke of the importance of employing transmission of high efficiency, as permitting the use of smaller engines, with consequent economy of weight. The need of paying close attention to the suspension of the little vehicles was discussed by Ethelbert Favary, who has given much thought to the question, but who was of the opinion that the most suitable forms for the purpose must be determined by experiment.

Suggesting broadly that established makers of both small cars and motorcycles, who already have large factories and well-knit sales organizations at command, would waste no time in turning to the cyclecar once its immediate profitability became apparent, Alden L. McMurtry, the consulting engineer, sounded a note of caution to those who may be inclined to rush into cyclecar manufacture prematurely. In a carefully prepared paper in which the entire question of light vehicle transportation was briefly considered, he outlined the present commercial limitations under which the cyclecar builder must work. He said in part:

The Miniature Car.

The cylinder volume tax in some foreign countries was so heavy that the manufacturers designed cars fitted with small high-speed motors. These small cars were in most cases exact duplicates of the regular product except on a much smaller scale. These cars proved that a small high-speed motor, with four-speed transmission, was the equal of the large, slow-speed American motor with a two or three-speed transmission.

It is a mistaken idea that these cars were designed solely to compete with the inexpensive American car, as some appeared on the highways abroad long before the so-called invasion of the American car.

After consideration of the motorcycle with the side-car attachment and the miniature automobile, the following questions arise:

Cannot a motorcycle be made with four wheels and arranged with a comfortable two-passenger body? Considering the design of the miniature car, is it necessary, when building a smaller car, to follow precisely accepted automobile engineering practice.

If it is possible to build a cyclecar which embodies almost all the essential parts of the motorcycle, why are not the motorcycle builders making them? Why are so few interested?

The price of a modern motorcycle averages between $250 and $305, and when equipped with a side car between $335 and $400. If we take the price of a motorcycle on a basis of comparison, then a motorcycle type of cyclecar should reasonably cost over $500.

This is provided, however, the proposed cyclecar is built with the same sterling quality of workmanship and material which may be found in the modern motorcycle.

The characteristics of such a car in respect to speed, power and method of control would eliminate it from the cheap automobile class. In other words, the advantage of rapid acceleration, taking all hills on high gear and possible overloading would be discarded in return for the presumably economical cost of up-keep with respect to fuel and tires.

We have in this country a car, the design of which afforded amazing manufacturing possibilities which have materialized. The success of this type of car is responsible in a great many respects for the cyclecar agitation. Almost 80 per cent. of the proposed American cyclecars are designed to compete, more or less, with this class of automobile, and as such could hardly be called cyclecars.

All the proposed American cyclecars are nothing more or less than small automobiles and as such are in a class by themselves in regard to utility, operation and cost of maintenance. The price of the actual American cyclecar is very close to that of the cheap automobile, while the prices of the cyclecars that remain in blueprint form are too low to guarantee either first-class construction or their actual existence.

As the cyclecar is at present of considerable interest, it is natural to hear of a great demand for them. Has this demand been analyzed? Is it a question of what is wanted or what can be supplied? Does the question of cost supersede mechanical construction? Does the demand actually exist, or is it a question of many inquiries and few sales?

Why are the large automobile factories with their wonderful manufacturing facilities not attempting to supply it? Can it be possible that the makers of cheap automobiles are waiting to eliminate their list of full equipment, design a skeleton body and meet the demand for a cyclecar with a cheaper automobile?

It is not my intention to appear pessimistic on the subject. However, the cyclecar has afforded questionable promoters a new excuse to organize manufacturing companies to build cyclecars at ridiculously low figures. Automobile engineers should discuss the cyclecar frankly and fearlessly in order that the public will know its limitations. Enthusiasm over the cyclecar should be limited to that which is supported only by fact.

Joseph A. Anglada, chairman of the Metropolitan Section, after outlining cyclecar limitations according to the European definition, briefly reviewed the manufacturing economies that the simple design of the vehicle renders possible. "The present conventional design of a low-priced American automobile," he said, "comprises a pressed-steel frame, a four or six-cylinder motor, a friction clutch of the cone, disc or band type, a sliding gear transmission giving two, three or four forward speeds, bevel gear or worm driven rear axle, semi-elliptic front springs, I-beam front axle, three-quarter elliptic, platform or transverse rear spring. The selling price of cars designed along these conventional lines is somewhere in the neighborhood of $1 per lb. for a touring car and as low as $.50 per lb. for the later type of runabouts.

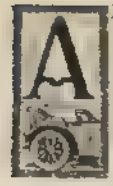
Cyclecars and motorcycles were contrasted to the advantage of the former in a paper by Harry J. Stoops, of the American Cyclecar Company, while the opposite view was expressed in a paper prepared by P. J. Bailey, of the Consolidated Manufacturing Company. J. E. Merkel, a pioneer motorcycle builder, in a crisp and suggestive contribution, predicted a great future for the miniature car type, while a paper prepared on behalf of W. S. Frazier & Company expressed equal enthusiasm for a type embodying somewhat simpler forms. Statistics drawn from British cyclecar practice, which were presented at the meeting, indicate a tendency to justify the designation of the new type by devloping new characteristics bred of both cycle and automobile design.

Power Plant of the Imp

This shows the two-cylinder power plant of the Imp cyclecar, which was described in our September, 1913, issue, page 189. An exterior view of this cyclecar is shown in the headpiece on the preceding page.

The Cyclecar Compared With the Automobile and Motorcycle*

By H. J. Stoops



AMERICAN manufacturers have, until recently, been very reluctant to consider seriously the cyclecar. This condition, we believe to be due to the fact that the small light cars produced abroad under this name appear too frail for road service in this country, and in many instances the designs are considered freakish, uncomfortable and largely experimental. The failure of the manufacturers also to appreciate that there was, and is, a real demand for a small light, comfortable car, with cost inexpensive and up-keep reduced to a minimum—a car between the automobile and the motorcycle—has no doubt retarded the manufacture of the cyclecar here.

The cyclecar is a miniature automobile reduced to its simplest form, not weighing more than 800 lbs., fitted with a light, compact motor which is dependable and economical in fuel and oil consumption. All modern elements of automobile construction are considered. The narrow tread adopted is not to satisfy any individual ideas, or to create a new or distinctive design, but is desired because of the resulting lightness, and consequently requiring less power and less cost, both initial and operative.

In this country we have been especially favored with a number of low and moderate priced cars, largely of the touring type, and with various types of motorcycles including those with the side car. These two extremes, so called for the purpose of placing the cyclecar in its proper relative position, have so engaged the attention of manufacturers generally that the cyclecar as an intermediate vehicle between the automobile and motorcycle has received but scant consideration.

In England at present there are perhaps one hundred manufacturers of cyclecars and miniature automobiles, several of whom have been producing successful cars for more than two years. The fact remains, however, that they have been unable to supply the demand and large numbers of the dealers on the continent have been and now are considering the American product, even though the movement is yet in its infancy in this country. This is partly due to the foreign manufacturers being unable to produce cars in quantities, consequently the high cost comparatively.

There can be no doubt but that there is a field and a demand for the cyclecar if existing conditions are fairly considered. A reliable automobile, of even low initial cost and subsequent up-keep, is beyond the reach of a great number of people, because of its size, weight and consumption of oil and fuel, together with the cost resulting from normal wear, places the cost of the car and its up-keep beyond the income of the average family.

The present stage of development of the cyclecar is the answer to the appeal of the public, and of the man of moderate means for a motor vehicle at a reasonable price and one which he can afford to operate, feeling that it is within his means, and secure in the knowledge that he will not be called upon for heavy outlays for renewals of expensive tires or parts at a time least expected or when he can ill afford them.

Cyclecars will not be overlooked by the business man who would move about his work quickly and comfortably—and in his business suit. He will be as fully protected as in a touring car, and will appreciate the ease of negotiating traffic on the busy streets in the small machine as compared with either of the heretofore conventional types of vehicles.

We are of the opinion that the car of the intermediate field between the automobile and the motorcycle which will be most popular with the average user in America, will not exactly conform to the cyclecar of European specifications, but will be a miniature automobile with side by side sociable seating of the popular automobile roadster type. It will have top, windshield and ample guards to protect its occupants from the elements and road conditions. It must of necessity be well built throughout; equipped with a dependable motor of sufficient horsepower to drive the car, not only on city streets and good roads alone, but on poor country roads as well. The first cost and the consumption of oil and fuel, and wear, especially on tires, must be given most serious consideration. In short, the cyclecar must be a small car at a price which the average family or business man can afford to own and operate.

It is possible to manufacture such a car, and may, because of the position it occupies in the motor vehicle industry, be aptly called a cyclecar.

What the tread, wheelbase or size of the motor should be on the cyclecar is at the present time a matter of opinion. Non-conformity to the European standard leaves these specifications to the engineer's individual judgment. Time and the individual opinions of users will dictate a standard which will be adhered to in a large degree by manufacturers in a short time. The mind of the ingenious American engineer is flexible and will be governed by public opinion.

*Extracts from a paper read before the Metropolitan Branch of the S. A. E., October 30, 1913.

Cyclecar Questions and Answers

Note:—Under this heading we shall publish, each month, communications in regard to cyclecar construction and design. We shall be pleased to answer any questions that we are able to, subject to these terms. Questions will be answered in the order in which they are received, and as promptly as possible. Address communications to "Cyclecar Department," Automobile Trade Journal, Chestnut and Market Sts., Philadelphia, Pa.

Questions as to Cyclecar Construction

I was very much interested in your article on cyclecars in the last issue. I should greatly appreciate it if you will answer the following, as I am expecting to go into the manufacture of cyclecars

1. Would you think a machine with three wheels all right for the city or a four-wheeler for both city and country?

2. Do you think the chain drive to one wheel is good practice, or do you recommend a friction in one wheel?

3. How about body design? Would you make it on the lines of an express wagon, so that it will be adapted to business and pleasure?

4. How long a wheel base should it have?

5. You speak of there being a great demand for a machine which will carry from 200 to 500 lbs. In what business would this be?

6. Do you think there will be a greater demand for cyclecars than for motorcycles?

7. Do you know of any efficient method for steering cheaper than the worm and gear?

8. Don't you think plain bearings are all right for the motor?

9. Isn't air cooling all right for a cyclecar motor, and what method is the most efficient for cooling?

10. Do you favor a horizontal opposed or vertical engine, and a 30 degree or 45 degree?

I suppose you would hardly recommend a one-cylinder engine?

Would 28-in. wheels be all right with 3-in. tires for rear and 2½ front?

BROOKLYN, N. Y. H. B. RUGGLES

Although a three-wheeled machine would be economical to manufacture, and perhaps satisfactory on city service, we do not believe it would take as a pleasure car when used on country roads. Four wheels are preferable.

A chain to one rear wheel only is rather crude. A friction transmission or the belt drive, or a combination which drives both wheels yet allows sufficient slip to do away with the differential is preferable.

Your suggestion of a body upon express wagon lines might be worked out very satisfactorily for a combination pleasure and business vehicle.

The wheelbase is somewhat dependent upon the arrangement of the seats. If social seating is adopted the wheelbase can of course be shorter than if the seats are arranged in tandem. In any case, I would not make the wheelbase less than 90 in.

All kinds of parcel delivery can be carried on with such a vehicle. There are innumerable trades in which the goods are not very heavy or where the deliveries are comparatively few, such as hat stores, florists, restaurants and hotel supplies, newspapers, printers and publishers, confectioners, fur dealers, groceries, jewelers, shoe stores, telephone companies, water and gas companies, real estate dealers, advertising signs, cigar stores, cutlery, musical goods plumbers, sewing machine manufacturers and agents, department stores, express companies, warehouses, general stores and wholesale supply houses. They can also be used as auxiliaries to fleets of large trucks.

The demand for cyclecars is entirely problematical. If the price is kept near that of a motorcycle industry, and may perhaps, on account of the commercial end, exceed it.

The worm and gear is rather expensive. A pinion and rack or some form of lever connection on such light vehicles with castered front wheels might be cheaper and yet effective. Plain bearings for the motor are very satisfactory if properly built and efficiently lubricated.

With such small cylinders as are required for a cyclecar, air cooling depending simply upon the air which blows against the cylinders, can be used satisfactorily

In regard to the engine, much depends upon the price of the car which you intend to put upon the market. For a low-priced machine, the V 45 or 90 degree engine placed in an upright position is satisfactory. For a higher-priced car a four-cylinder vertical engine is preferable. A small two-cylinder opposed air-cooled motor is, next to the four cylinder, the best balanced engine, and can be made to run very sweetly if well designed. It has but one important drawback, and that is lubrication, but this has been satisfactorily worked out by some well-known makers, and there is no reason why it should be a stumbling block. A single cylinder engine is not good practice.—Editor.

Balancing a Cyclecar Engine

(1596). Is it very hard to balance a two-cylinder cycle-car engine of the V-type. Both connecting rods joined so as to operate on the same throw of the crankshaft? If I used a two-throw crankshaft and each connecting rod had a separate bearing on the two throws of the crankshaft, and the throws of the crankshaft were made on the same degrees as the cylinder, would it be any better? Also would it be easier to balance as this would space the explosions evenly while in the other form the explosions would be uneven?

Would the latter be easier to balance or not?

NORWALK, O. CHAS. L. FREDERICK.

The form of engine you mention is quite common and quite satisfactory. It balances the explosions nearly since one cylinder fires one revolution and the other the next. It does not balance the mechanical parts. If you use two throws and set them apart the same angle as the cylinders, you would make no appreciable gain, but some additional cost. If you set the cranks nearly opposite you would balance the parts, but the explosions would come much closer together, and would therefore not be considered so good. This matter has been tried out fully by makers for a good many years, and you will do well to follow the usual practice.—C. E. D.

The Dudley Tool Company, of Menominee, Mich., will place on the market the Dudley Cyclecar with a 10 h. p., V-type motor, air-cooled and a planetary and V-belt transmission. Wheelbase is 96 in. and the tread 36 in. The weight of the car will be about 400 lbs. A test car is now on the road and the Dudley Company expects to turn out from 500 to 1000 cars for the coming season. The price of the car will be about $375.

Cyclecar Transmissions and Controls

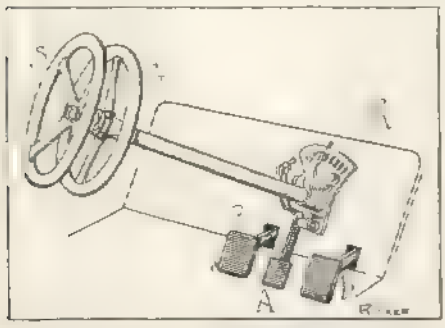
By Chester S. Ricker, M.E.

(Continued from our November issue.)

Another car with chain transmission is the well-known G-N. On their racing car they provide three forward speeds by means of chains; on the standard car only two. This machine differs from many in that it has no reverse. The latter is a point which distinguishes the Zendik chain transmission. On the G-N the motor is placed with the axis of the crankshaft parallel to the side members of the frame. This necessitates a bevel gear somewhere between the motor and the countershaft. The sprockets are picked up by means of dog clutches, in order to give the proper reduction. Short V-belts transmit the power from the countershaft to the rear wheels.

Gear Drives.

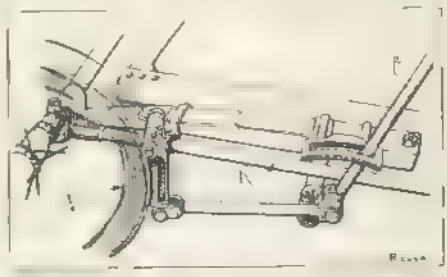
The use of gears for giving suitable reduction is by far the most common. Some of the cars have two speeds and reverse, some two speeds only, some three and some four. On the lowest priced cars employing reductions of this type the two speeds are



Gibson Friction Transmission Control—S, steering wheel; G, change speed wheel, R, ratchet for holding G in each speed; P, pressure pedal, depressing to separate friction discs; A, accelerator pedal; B, foot brake.

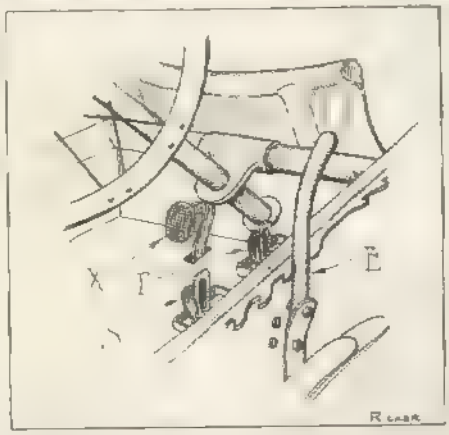
obtained by sliding gears and are both indirect. Planetary transmissions are also quite common. One which is built in this country has already become very popular among those manufacturers who contemplate building cyclecars.

Probably the most unique of all gear drives on these miniature cars is found on the Baby Peugeot. The details of this drive are given in the following paragraphs. The power is transmitted from the motor to the transmitting mechanism through an inverted cone clutch which is bolted direct to the flywheel, and is leather faced. Two speeds forward are provided and these are obtained by employing two propeller shafts, placed one inside the other. The inner one, which is used for the high gear, projects well into the bevel casing of the back axle, and the bevel keyed to it at its extremity is always in mesh with one of the two sets of teeth on the crown wheel. The outer or tubular shaft has also a bevel which is in engagement with the outer set of teeth. By means of a double faced dog clutch either shaft can be coupled up



Gibson Hand Brake—V, rear wheel belt pulley; B, brake shoe acting in pulley V R, radius rod; E, emergency brake lever.

with the clutch shaft; thus direct drive is obtained on either gear. Both shafts are enclosed, and the casing in which the dog clutch is placed also contains the very novel reverse gear. Attached to the clutch shaft and to the outer or lower gear propeller shaft are two bevels, while another placed in a plane at right angles is held clear of the former. By meshing the "idle" bevel with the other two a reverse is, of course, obtained. Although the forward speeds are controlled by an ordinary lever, the reverse is operated by a small Bowden wire lever which is placed on the inside of the body close to the driver's hand. Owing

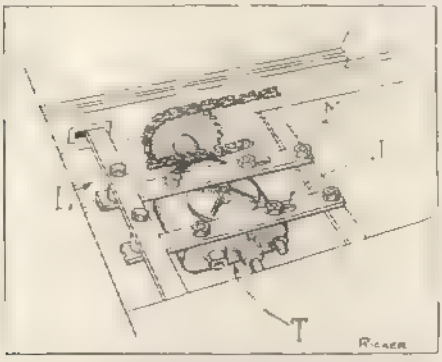


Redelia Controls—X, brake pedal and exhaust valve release; T & S, throttle and spark levers; E, belt tensioner.

to a special arrangement, it is quite impossible to engage two gears at the same time.

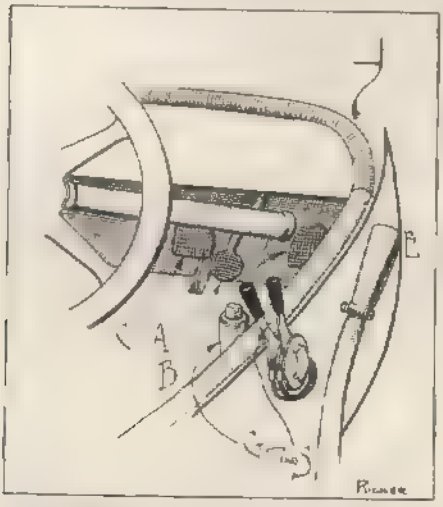
Gear Ratios.

As most of these miniature cars have 26-in. wheels and motors of about 1000 to 1100 cubic centimeters displacement, i. e.,



Chsta Transmission—L, drive to countershaft, T, 2 speed & reverse transmission sliding gears; M, roller chain drive from motor; J, adjustment for M.

from 61 to 67.2 cubic in., the gear ratios hold good in all cases. The low speeds vary from 14 to 1 up to 6.7 to 1, the latter being found on the Baby Peugeot. However, the latter has 32-in. wheels, which accounts for this extremely high ratio. On top gear the Peugeot also seems to have the lowest reduction, namely, 3.3 to 1. Those cars having 26-in. wheels have on the average about 4 or 5 to 1, 4½ to 1 being the most usual. In one case, the little 2-cylinder J. B. S., four speeds progressive are provided, these speeds having the following ratios: 4.25, 6 5, 9 and 14 to 1. The little Chater Lea, with its two-cylinder, 3⅜-in.



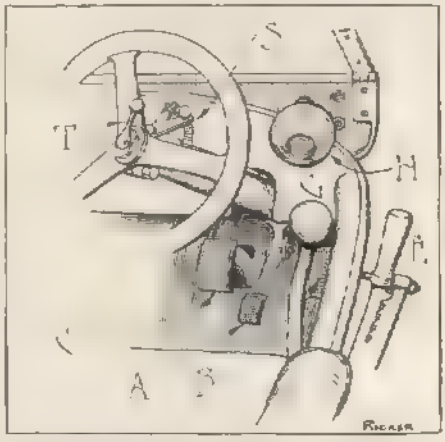
Humberette Controls—T & S, throttle and spark levers; H, horn bulb; G, gear shift lever; E, emergency brake; C, clutch pedal, A, accelerator pedal; B, brake pedal.

square motor, has three speeds, the ratios of which are as follows: 4½, 6¾, 10½ to 1. This will give a good idea as to what is considered good practice.

Final Drives.

There are three final drives which are found in use, belt, chain and shaft. The belt drive may provide either one or two speeds. Where two belts are employed the drive is to each rear wheel separately. Where one belt is employed the drive may be to one wheel only, or as in the case of the Cumbria car, one belt is employed in a very unique way which will be explained under the differential substitutes

On the Globe car, which has a chain final drive, only one wheel is driven. This dispenses with the differential and overcomes the difficulties which would be experienced were a sliding shaft employed for both rear wheels. The A-C car likewise has a chain to the rear wheels, but in this case the rear axle rotates. One wheel, however, is mounted upon the axle with bearings, so that it is independent of the axle proper.



Swift Cyclecar Controls—C, clutch pedal, A, accelerator pedal; B, brake pedal, G, change speed lever; T & S, Bowden controls for throttle and spark; E, emergency brake.

The other one is keyed onto the axle and turns with it. In a few cases on higher-priced cars a differential is employed, but this is the exception rather than the rule.

On all of the miniature cars with hardly an exception, shaft drive with one or two universal joints is used exclusively. When shaft drive is used a floating axle with housing, bearings and differential is always to be found.

Differential Substitutes.

As mentioned in the beginning of this article, the double V-belt drive owes its popularity to the differentialing action which it effects. A very interesting differentialing action is obtained on the Cumbria cyclecar, where a single V-belt drive

to the rear wheels is employed. A 1⅝-in. V belt transmits the power from a 7-in. pulley on the gear box, which is centrally located, to a 13-in. rear pulley. The latter is mounted upon a specially designed rear axle. A sliding shaft carries both rear wheels which rotate on the ends of it. The belt pulley, which is located at the center of the axle, is made in a right and left half. Each half of this pulley is fastened to its tube which runs upon the solid rear axle. The outer ends of these tubes drive the wheels through jaw clutches. Suitable ball bearings are provided to take the thrust caused by the wedging of the V-belt which tends to separate the two pulley halves and therefore the tubes. By having both wheels driven independently this belt permits one or the other to slip sufficiently to cause a differentialing action as the car turns a corner.

Cyclecar Controls.

The cyclecar, on account of its design, has a number of features which differ somewhat from the standard control. On those cars having double belt drive at the rear it is customary to provide a lever by means of which they may be tightened up. On the Bedelia this lever operates directly upon the rear axle and moves the latter forward or backward with respect to the frame of the car in order to loosen or tighten the belts. This lever comes up beside the driver in a position similar to that of the emergency brake lever. It really is change speed lever and clutch all in one. On the floor boards is located a pedal which lifts the exhaust valve to the motor and applies a brake in the form of a V-shaped shoe which acts against the pulley drums of the rear wheels. Two small pressed steel levers are fastened onto the side of the body and operate the throttle and spark at the motor by means of cables which are spring returned

The A-C cars, which are equipped with planetary transmissions, have the control which is familiar to most American users of the old transmission gears. Two pedals located on the foot boards give reverse and low speeds respectively when depressed. High speed is brought into action by means of a lever at the side of the driver and an emergency brake acting upon rear wheel drums is placed outside of the body convenient to the driver. Air, gas and ignition controls are located on the side of the body convenient to the driver, and are operated by means of Bowden wire cables.

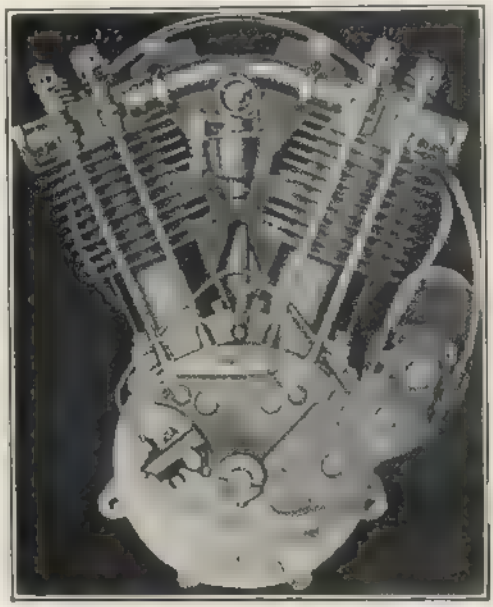
The Humberette and Swift cars belong in the miniature car class, but are shown merely to indicate the simplification of their controls, although they are standard The Humberette places the spark and throttle lever on the wheel. On the G-N cars the same thing is true, only Bowden wire transmitting mechanism is provided and the levers are fastened onto one of the arms of the steering wheel. On both these small cars clutch, brake and accelerator pedals are to be found. The emergency brake is usually on the outside of the body, due to the fact that these cars are very narrow. The change speed lever in each case is inside of the body at the driver's right

On the Swift, Bowden wire controls are located just outside of the body at the driver's right. They operate both spark and throttle levers.

The Mack Cyclecar Motor

The Universal Machinery Company, Milwaukee, Wis,. has brought out two new two-cylinder, 45 degree, four-cycle, air cooled motors, one of 7 h. p. with 3⅜-in. bore and 3 13-32-in. stroke, and the other of 9 h. p. with 3⅜-in. bore and 3 29 32-in. stroke, for use on cyclecars. The cylinders are one piece with cooling-fins, and the overhead valve cages are bolted to the cylinder tops. The parts of the cylinders, cages and valves are interchangeable

Valve operation is through pawls acting on integral cams. The gears which actuate the valve cams, magneto and pump are all within the crank case, which is practically smooth on the outside, with the valve and magneto gear covers bolted on separately The pump, magneto and cam gears are all the same size, twice the diameter of the gear on the crankshaft. They are so located inside the crank case that the pump and magneto gears engage the main shaft pinion at practically opposite points. The gear of the rear cylinder cam engages and takes its drive from the pump gear, and in turn engages with and drives the gear of the front cylinder cams. These



'Mack' Cyclecar Motor.

gears have integral studs which pass through bronze bushings in the crank case, and after they are engaged the gears are placed and timed from the outside.

Construction is simplified by making all the above-mentioned gears identical and interchangeable, the same being true of the double-faced cams and rocker arms or pawls being made from the same pattern and interchangeable.

Motor Support.

The support of the motor is by bolts passing through the side of the crank case and a horizontal plate on the bottom of the extended hub on the drive side of the motor. The motor is equipped with a long extension shaft carrying either a sprocket for chain drive or a disc for friction drive A fan post is bolted to the top of the extension hub and carries a ball bearing fan in an eccentric hanger, the purpose of the latter being belt adjustment. The fan is driven by a flat belt and is so located that with the motor placed transversely in the frame, the fan is behind the cylinders and draws the air through them.

The Oiling System.

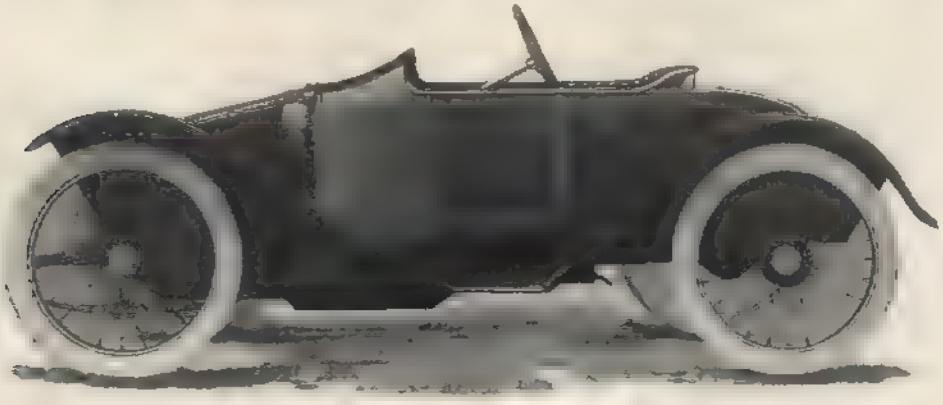
The mechanically operated oil pump on the motor is a plunger approximately ⅝ in in diameter, within which is a spiral spring which constantly presses it towards the working end of the cylinder. The outer end of this plunger is toothed, making a pinion gear approximately ½ in. in width, which gear engages a worm gear on the pump gear shaft and thus the plunger is constantly rotated in relation to the engine speed. The other end of the plunger is cut away across half of the section, leaving a semi-circular projection about ⅛ in. in depth. Extending inwards from the end of the pump cylinder is a screw set near the outer wall of the cylinder. In rotating within the cylinder, the flattened surface of the plunger engages this screw through the sloping surface and is raised or thrust outwardly in the cylinder the height of the screw. When the plunger has made a half revolution the raised portion passes off the screw and the spring pushes it back to the end of the cylinder; in this manner the plunger is given a forward and backward movement. The intake and delivery parts are simply openings in the cylinder wall which are opened and closed by the rotation of the cut-away portion of the plunger. By this construction, at the same instant that the rotating plunger engages the screw and is thereby raised, the intake port is opened and oil is drawn into the pump by the suction of the outward stroke of the plunger. Just as the raised portion passes off the screw the intake port is closed, the delivery port is opened, and the spring, pressing the plunger back into its normal position, forces the oil through the delivery pipe to the motor.

The weight of the motor complete, with the exception of friction drive disc, is 100 lbs. The weight of the friction disc or flywheel is 18 lbs. Total width from face of friction disc to opposite end of crankshaft is 14⅜ in. Height from center of crankshaft to top of fan is 17¼ in. Diameter of friction disc is 14 in.

The "Little Princess" Cyclecar

The Princess Cyclecar Company, with offices at 1311 Dime Bank Building, Detroit, Mich., has been incorporated with $200,000 capital, fully paid and non-assessable, to build the "Little Princess" Cyclecar, which will be produced in three models—a two-passenger roadster, a four-passenger town car and a light parcel delivery car. We illustrate herewith the two-passenger roadster.

The motor is four-cylinder, four-cycle, air-cooled. The cylinders are L-head, 2¾ in bore and 3⅜ in. stroke and develops 12 h. p. Connecting rods and crank shaft are



The "Little Princess" Cyclecar.
Two passenger roadster, 44 in. tread and 86 in. wheelbase. Wire wheels $351

high carbon drop forge steel. The cam shaft has integral cams hardened and ground. Bearings are high grade nickel babbitt. The flywheel is large and light and used as a fan. The magneto is high-tension, either Bosch or special. The carburetor is ⅝ in. Holley or special. The valves are large and mushroom type. Lubrication is attended to by a positive plunger pump.

The transmission is a planetary built for cyclecars. It gives two speeds forward and one reverse. One pedal operates the forward speeds and a heel pedal the reverse. A bevel gear differential is fitted on the rear axle. The front axle is tubular.

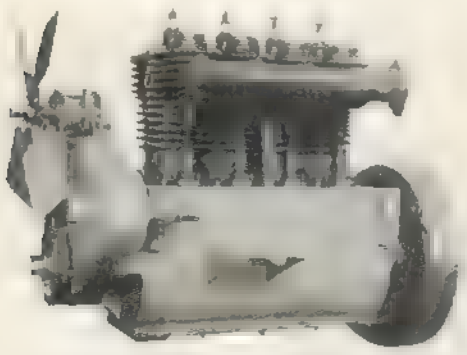
Semi-elliptic springs are fitted on the front and a semi-elliptic transverse on the rear. The wheels are wire and fitted with 28 x 3 in. tires. Two sets of brakes are used. The frame is channel section, light and strong. The drive is on the left with 16 in. wheel. The gasoline tank, carried under the dash, holds 5 gals. Oil and gasoline gages are located on the dash.

The body is metal, with deep comfortable seats, upholstered in Bedford cloth or leather. There is a luggage compartment in the rear. The hood is a French sloping type. The wheelbase is 86 in. and the tread 44 in. The roadster will weigh 600 lbs. and will be listed at $375.

Four-Cylinder Air-Cooled Cyclecar Motor

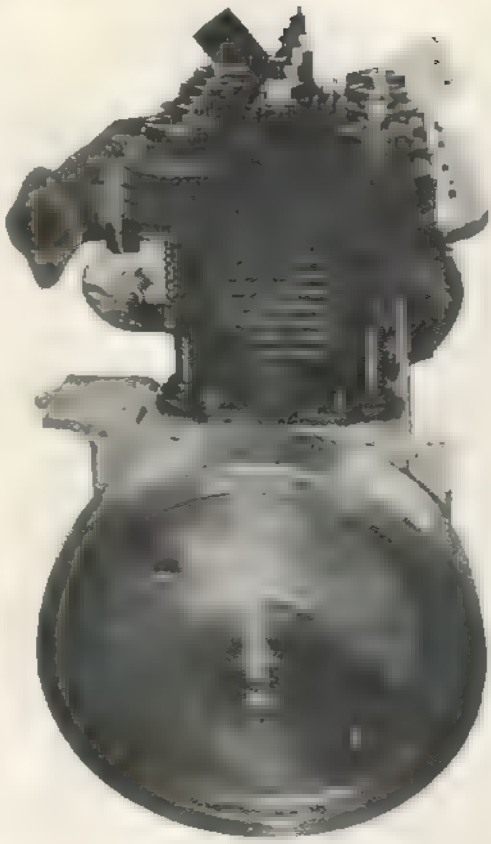
A new four-cylinder, 2½ x 3½-in. four-cycle, air-cooled motor has just been brought out by the Pacific Mechanical Company, 5410 Normandie Avenue, Los Angeles, Cal.

The motor weighs 100 lbs. and develops 10 h. p. by the S. A. E. rating. The valves,



Left Side of the Motor.
It is air-cooled, T-head. The intake pipe is very short, making the carburetor high set. The bracket shown is standard Bosch dimension for attaching a magneto.

1¼ in. in diameter, are placed on opposite sides of the cylinders, which are cast separate. The crankshaft is 1¼ in. in diameter,



Rear View of the Motor.
The flywheel can be machined to accommodate any desired style of drive.

and carried on two bearings, 3 in. in front and 3½ in. long in rear. The connecting rod bearings are 1¾ x 1¼ in. Connecting rods and crankshaft are steel; the cylinders, pistons and rings are high-grade grey iron.

Air cooling is used to save weight on the car and the cost of radiator, etc. The fan in 12 in. in diameter and is belt driven from the crankshaft. The crank case is aluminum. The flywheel has an 11-in. diameter and 2½-in. rim, and can be machined for any type of drive. A standard dimension bracket is cast on the crank case for mounting a magneto. A ¾-in. carburetor with standard flange is used. The cylinder heads are tapped for standard motorcycle spark plugs.

This motor is adaptable to almost any method of suspension. It may be hung underneath two angle pieces and held by four 7-16 in. bolts at each corner, or the angle pieces may be run underneath the motor and four short pieces of steel tubing used for uprights bearing under the crank case lugs. It can be suspended from either the main frame or a sub-frame.

TINNERS' TOOLS AND MACHINES.

Solid Cast Iron, Japanned Frames, Polished Steel Gearings and Rolling Faces, with Adjustable Boxes and Adjusting Screws, Complete with Wood Handle and Malleable Iron Crank. By a Patent Arrangement the Upper Journal Boxes are so Constructed that the Faces readily pass over the Seams without Straining the Machine or Injuring the work. Each Machine sent with Improved Standard, for use in attaching Machine to Bench.

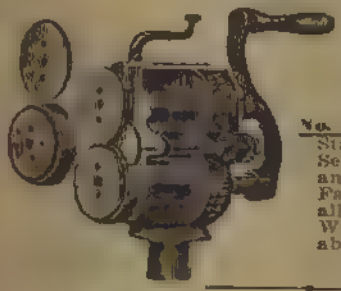
All Parts Interchangeable

Can be used on any Material up to 24 Gauge

SETTING DOWN MACHINES.

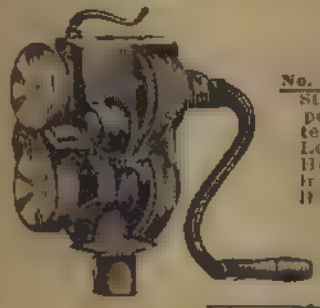
No. 1SD—ENCASED, with Standard; Diameter of Upper Roll 3⅛ in., Diameter of Lower Roll 3 in., For ⅛ in. Screws; Length over all 9 in., Height over all 7½ in.; Width 4½ in., Weight each about 20 lbs. Each $14.10

LARGE TURNING MACHINES



No. 1LT—ENCASED, with Standard and One Extra Set of Faces for Nos. 5 and 7 Wire; Diameter of Face 2⅝ in., Length over all 9 in.; Height 10 in., Width 4 in., Weight each about 35 lbs....Each, $21.30

WIRING MACHINES.

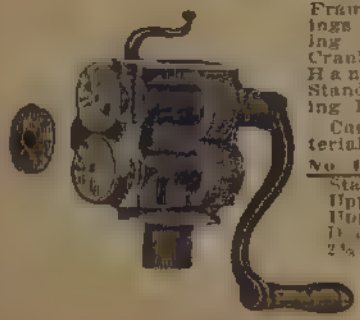


No. 1W—ENCASED, with Standard; Diameter of Upper Roll 3⅛ in.; Diameter of Lower Roll 2⅝ in., Length over all 9 in.; Height 10½ in., Width 5¾ in., Weight each about 30 lbs. Each, $25.00

SMALL TURNING MACHINES.

No. 1ST—ENCASED, with Standard and One Extra Set of Faces; For Nos. 7 and 9 Wire; Diameter of Upper Face 2⅛ in.; Diameter of Lower Face 2 1/16 in.; Length over all 8½ in.; Height 8⅛ in.; Width 3½ in., Weight each about 25 lbs .....Each, $20.90

LARGE BURRING MACHINES.



Solid Cast Iron, Japanned Frame; Polished Steel Gearings and Faces, with Adjusting Screw; Japanned Iron Crank, with Plain Hardwood Handle; Complete with Standard, for use in attaching Machine to Bench.

Can be used on any Material up to 24 Gauge

No. 1LB—ENCASED, with Standard and One Extra Upper Face; Diameter of Upper Faces 2⅛ in., Diameter of Lower Roll 2⅛ in.; Length over all 9½ in., Height 8½ in., Width 3⅝ in.; Weight each about 25 lbs.....Each, $18.50

One In a Wood Box.

TINNERS' TOOLS AND MACHINES.

SMALL BURRING MACHINES.

Solid Cast Iron Japanned Frame; Polished Steel Gearings and Rolling Faces, with Adjusting Screw, Japanned Iron Crank, with Plain Hardwood Handle; Complete with Standard, for use in attaching Machine to Bench.

Can be used on any Material up to 24 Gauge

No. 1SB—ENCASED, with Standard and One Extra Upper Face; Diameter of Upper Faces 1⅛ in.; Diameter of Lower Roll 1⅛ in., Length over all 7 in., Height 7 in.; Width 3½ in.; Weight each about 20 lbs. .....Each $18.50

Solid Cast Iron Japanned Frames, Polished Steel Gearings and Rolling Faces, with Adjustable Boxes and Adjusting Screws, Complete with Wood Handle and Malleable Iron Crank. By a Patented Arrangement the upper Journal Boxes are so constructed that the Faces readily pass over seams without Straining the Machine or Injuring the Work. Each Machine sent with the Improved Standard, for use in Attaching to Bench.

All Parts are Interchangeable Can be used on any Material up to 24 Gauge

WIRING MACHINES.

No. CW — COLUMBIAN, with Standard; Diameter of Upper Roll 3 1/16 in.; Diameter of Lower Roll 2⅝ in., Length over all 8 in., Height 11 in., Width 5½ in., Weight each about 35 lbs. .....Each, $22.20

LARGE TURNING MACHINES.

No. CLT—COLUMBIAN, with Standard and One Extra Set of Faces, for Nos. 5 and 7 Wire; Diameter of Faces 2⅝ in., Length over all 8¾ in.; Height 10¾ in.; Width 3¾ in.; Weight each about 25 lbs.....Each, $19.00

LARGE BURRING MACHINES.

No. CLB — COLUMBIAN, with Standard and One Extra Upper Face; Diameter of Upper Faces 2⅛ in.; Diameter of Lower Roll 2⅛ in.; Length over all 7½ in.; Height 10 in.; Width 3¾ in.; Weight each about 30 lbs..Each $16.70

SETTING DOWN MACHINES.

No. CSD — COLUMBIAN, with Standard; Diameter of Upper Roll 3⅛ in.; Diameter of Lower Roll 3 in.; Length over all 9 in.; Height 7⅞ in.; Width 4½ in.; Weight each about 25 lbs.....Each $27.00

One In a Wood Box.

TINNERS' TOOLS AND MACHINES.

Solid Cast Iron Japanned Frames, Polished Steel Gearings and Rolling Faces, with Adjustable Boxes and Adjusting Screws. Complete with Wood Handle and Malleable Iron Crank. By a Patented Arrangement the upper Journal Boxes are so constructed that the Faces readily pass over seams without Straining the Machine or Injuring the Work. Each Machine sent with the Improved Standard, for use in Attaching to Bench.

All Parts are Interchangeable. Can be used on any Material up to 24 Gauge.

SMALL TURNING MACHINES.

No. 0ST — COLUMBIAN, with Standard and One Extra Set of Faces; for Nos. 7 and 8 Wire; Diameter of Upper Face 2¼ in.; Diameter of Lower Face [illegible] in.; Length over all 9 in., Height 5⅛ in.; Width 3½ in., Weight each about 30 lbs. . Each, $18.50

SMALL BURRING MACHINES.

No. 0SB — COLUMBIAN, with Standard and One Extra Upper Face; Diameter of Upper Faces 1¼ in.; Diameter of Lower Roll 1⅝ in.; Length over all 7½ in.; Height 8½ in.; Width 3 in., Weight each about 25 lbs. . . . . Each, $15.80

One in a Wood Box.

‡EUREKA CORNICE BRAKES.

HALL'S IMPROVED

WITH LEVER WEIGHTS AND TREADLE ATTACHMENT.

This Machine is exceedingly well made and simple in construction. It is guaranteed to be of equal merit with any brake of its class. This brake is warranted to bend No. 28 Iron perfectly straight its entire length without sprenging. It is easily and quickly operated.

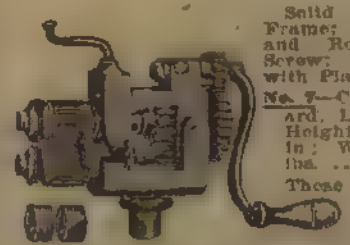
The Formers are held to the Machine by friction clamps and are easily attached or detached. Clamping Jaws open 1½ inches.

‡No. 186—Clamps 38 in.; Seven Formers are furnished with each Machine for making Circular bends. One each 3, 2½, 2, 1¾, 1½, 1¼, and 1 in.; Weight each about 2000 lbs. $370.00

Packed Loose.

STOVE PIPE CRIMPERS.

Combined Stove Pipe Crimpers and Beaders.



Solid Cast Iron, Japanned Frame; Polished Steel Gearings and Rollers, with Adjusting Screw; Japanned Iron Crank, with Plain Hardwood Handle

No. 7—Complete with Standard, Length over all 10 in.; Height 10⅝ in.; Width 6⅛ in.; Weight each about 40 lbs. . . . . Each, $20.00

These Machines are Designed to Facilitate the Making and Putting Together of Metal Pipe of different Diameters.

They Crimp and Contract the Edges of Stove and Conductor Pipe, so that the Lengths are put together easily.

They are Provided with Beading Rolls, which Bead the Pipe at the same time it is Crimped.

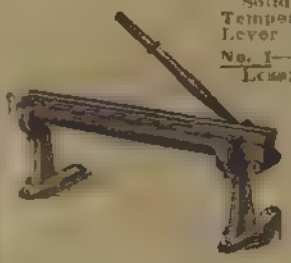
This machine is adapted for Metal up to 22 Gauge. All parts Interchangeable.

One in a Wood Box.

TINNERS' TOOLS AND MACHINES.

SHEET IRON FOLDERS.

WRIGHT'S PATENT.



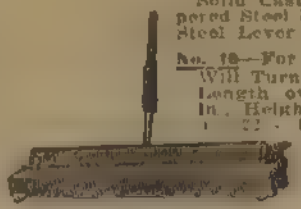
Solid Cast Iron, Japanned, with Tempered Steel Blade and Steel Lever Handle.

No. 1—For Iron 30 in. Wide or Less; Length over all [illegible] in.; Height 10 in., Width [illegible] in.; Length of Handle 20¼ in., Weight each about 80 lbs. . Each, $22.20

This Machine will Turn Locks of different Widths on any Length of Sheet. To turn an Edge Longer than the Length of the Machine, use the Round Rod, placing it so that the Sheet will be put into the Machine over it, and turn the Folding Bar against its Round Surface, making a Slight Bend the Entire Length of the Sheet, and Repeat this Operation of Bending until the Lock is Finished or far Enough to Close it down in the ordinary way. In turning Edges on Long Sheets, the Edge should be Turned slightly at first, and the Process of Bending Repeated until Finished. Adapted for all kinds of metal up to 24 Gauge; Will Turn 5/16 and 5/16 in. Locks.

One in a Wood Box.

STOW'S IMPROVED



Solid Cast Iron, Japanned, with Tempered Steel Blade, Securely Screwed, and Steel Lever Handle.

No. 18—For Iron 30 in. Wide, or Less Will Turn Locks from 3/16 to ⅜ in.; Length over all 38 in.; Width 6½ in., Height 3⅜ in. Length of Handle 22 in., Weight each about 75 lbs. . . . . Each, $18.50

This Machine is so constructed that the Gauge moves on a line Parallel with the Edge of the Folding Plate, Is Adapted to any Material up to 18 Gauge.

One in a Wood Box

FORMERS.

Patent Formers, with Compensating Gear.

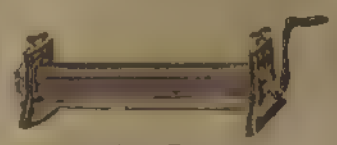
Solid Cast Iron, Japanned, with Steel Supporting Rods Securely Bolted; Four Regulating Thumb Screws; Japanned Steel Crank, with Plain Hardwood Handle.

Adapted for Metal up to 22 Gauge.

No. 12—3 in. Rolls; For Iron 30 in. Wide or Less Length over all 37 in.; Height 12 in.; Width 7¼ in.; Weight each about 140 lbs. . . . . Each, $20.50

This Machine is Equipped with Patent Compensating Gear, on which the Cogs attached to the Gripping Rolls do not Articulate with each other, as they are so hung that while the Gripping Rolls are moved, the Mesh of the Gearing is Unchanged, which Assures Uniformity of Action and Durability of the Cogs so that whatever Thickness of Metal is used the Gears run Smoothly without Danger of Slipping or Breaking.

One in a Wood Box.



Stove Pipe Formers.

Solid Cast Iron, Japanned, with Steel Supporting Rods, Securely Bolted; Four Regulating Thumb Screws; Japanned Steel Crank, with Plain Hardwood Handle.

Adapted for Metal up to 22 Gauge.

Each

No. 1—2 in Rolls; For Iron 30 in. Wide or Less; Length over all 37 in.; Height over all 12½ in.; Width 9 in. Weight each about 140 lbs. $20.40

No. 2—1¾ in. Rolls; For Iron 30 in. Wide or Less; Length over all 37 in.; Height 11⅛ in.; Width 8 in. Weight each about 110 lbs. 20.00

Steel Rolls, Turned and Finely Finished, Free from all Indentations and Imperfections.

One in a Wood Box.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

TINNERS' TOOLS AND MACHINES.

FORMERS.

GRANNIS' Patent Slip Roll Formers.

Solid Cast Iron, Japanned, with Steel Supporting Bars securely fitted, Polished Steel Rolls; Japanned Steel Crank, with Plain Hardwood Handle.

No. 100—2 in. Rolls. For Iron 30 in. Wide or Less. Length over all 38 in.; Height 13 in.; Width 8 in., Weight each about 100 lbs.....Each, $30.80

This Machine is Easily Adjusted and can be set to form any desired Size of Cylinder from one Size to another in a few minutes. They are made with Split Rolls, so Work can be readily taken from the end after it has been formed. Cylinders can be formed with DXXX Tin as small as 2½ in. in Diameter, and from X Tin as small as 2¾ in.

One in a Wood Box.

‡GROOVERS

‡STOW'S Encased Grooverers.

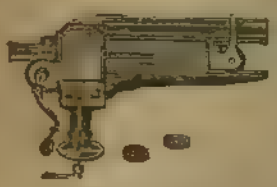
Solid Cast Iron, Japanned, with Steel Grooving Bar; Japanned Steel Crank, Length 18 in., with Plain Hardwood Handle; Wedge Lock Rotary Stand.

Adapted for All Kinds of Metal Up to 26 Gauge.

‡No. 1 S—For Iron 26 in. Wide or Less; Size Groove Rolls ⅛, 5/32 and 7/32 in. Length over all 24½ in., Height 9 in. Width 4 in. Weight each about 28 lbs. . . . . Each, $25.00

One in a Wood Box.

‡Brass Mounted Grooverers.



Solid Cast Iron, Japanned, with Solid Steel Rolling Plate and Supporting Bar; Japanned Steel Crank, Length 18 in., with Hardwood Handle; Lever Screw Bench Clamp.

Adapted for All Kinds of Metal Up to 26 Gauge.

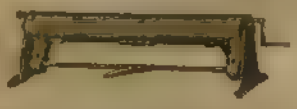
‡No. 91—For Iron 26 in. Wide, or Less; Especially adapted for Heavy Work, Size of Groove Rolls ⅛, 5/32 and 7/32 in.; Length over all 32½ in.; Height over all 11 in.; Width 6¼ in.; Weight each about 100 lbs. Each $25.00

Seams on this Machine can be formed on the Inside or Outside of the Cylinder and can be used on all Vessels not less than 2 in. Diameter.

One in a Wood Box.

GUTTER BEADERS.

STOW'S PATENT.



Solid Cast Iron Stand, Japanned, with Solid Cast Steel Ground Edges; Polished Cast Steel Rod and Steel Crank; Can be used on any Material up to 24 Gauge.

No. 9—STOW'S PATENT. 30 in. Long. Diameter of Rod ⅝ in. Length over all 32 in., Height 9 in., Width 5 in.; Weight each about 85 lbs.; each.....$16.00

One in a Wood Box.

Iron Bottom, with Enclosed Rod

Solid Cast Steel, Japanned, with Ground Edges, securely Bolted; Polished Steel Rod; Malleable Iron Crank, with Wood Handle. Can be used on any material up to 24 Gauge.

Each

‡No. 92—36 in. Long. Diameter of Rod ⅝ in. Length over all 42 in., Height 12½ in. Width 5¼ in., Weight each about 20 lbs. $9.60

One in a Wood Box.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

TINNERS' TOOLS AND MACHINES.

BEADING MACHINES.

With Stand

Solid Cast Iron, Japanned Frame, Polished Steel Gearings and Rolls, with Adjusting Screw; Malleable Iron Crank, with Wood Handle.

No. 4—STOWE'S PATENT. 4 in.; Complete with Four Pairs Rollers and Rotary Stand. Length over all 15 in.; Height 8½ in.; Width 3½ in.; Weight each about 45 lbs.....Each, $34.80

This Machine is Specially Adapted for Beading the General Line of Pieced and Stamped Tinware, etc.

Each Machine Fitted with Four Pairs of Rollers (as shown in cut) and Wedge Lock Rotary Stand.

All Parts are made to Standard Gauges, and are Lettered so that any Piece can be Replaced by Designating the Number of the Roller and the Letter Stamped on the Part Wanted. Can be used on any material up to 26 Gauge.

One in a Wood Box.

TIN FOLDING MACHINES.

Solid Cast Iron Body, Japanned, with Solid Steel Gearings and Tempered Steel Blades; Japanned Steel Crank, with Plain Hardwood Handle.

No. 152—20 in.; Will Turn Locks from ⅛ to 1 in.; Length over all 28 in.; Width 10½ in.; Height 5¼ in.; Weight each about 100 lbs.....$50.00

No. 154—30 in.; Will Turn Locks from ⅛ to 1 in.; Length over all 37½ in.; Width 13 in., Height 7 in.; Weight each about 185 lbs.....$68.50

This above Machine will Form Square Joints or Angles, Turn Narrow or Wide Locks, Turn a Round Edge for Wiring, and Make Laps up to 32 Gauge. They will also form Open Locks, such as are suitable for Wiring Straight Work.

The Gauge is Adjusted with a Thumb Screw at the end of the Machine, and is Adjusted Direct in Fractions of Inches, Indicated by the Gauge shown on the front of the folds.

All parts are Interchangeable, each part being Lettered or Numbered, making it a simple matter to re-order any extra.

One in a Wood Box.

Solid Cast Iron Body, Japanned, with Solid Steel Gearings and Tempered Steel Blades, Japanned Steel Crank, with Plain Hardwood Handle.

No. 254—30 in. Will Turn Locks from ⅛ to 1 in. Length over all 37 in.; Width 11¼ in.; Height 6½ in.; Weight each about 190 lbs. . . . . Each $74.00

This Machine will Form Square Joints or Angles, Turn Narrow or Wide Locks, Turn Around Edge for Wiring and Form these Locks on Medium Plate with Ease. It will also form Open or Closed Locks. By open Locks we mean such as are suitable for Wiring Straight Work and are Formed by Dropping the Wing below the Level of the Gripping Jaw.

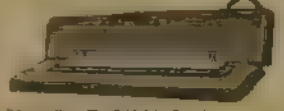
The Gauge is adjusted by Means of a Drop Lever in Front of the Machine, the Movement of this Gauge is Instantaneous; its Adjustment is in Fractions of Inches, which are Indicated by Graduated Scale in Front and on the Top of the Machine; it is Fastened by a Thumb Screw on the Right of the Projection in Front. The Adjustment of the Folding Bar for Round or Open Locks is by Means of the Socket Wrench shown in the Cut.

This Machine is Adapted for Ordinary Tin, but may be Adjusted for Material as Thick as 22 Gauge. They work easily and the Wearing Parts are most Durable. All Parts Interchangeable.

One in a Wood Box.

ROOFING FOLDERS.

IMPROVED WOOD.



Made of Solid Oak Wood, Natural Finish, with Steel Edge and Iron Handle; Fitted with Polished Steel Clamping Blades, securely Screwed.

Can be used on any Material up to 28 Gauge.

Each

No. C—COMMON; Length 20 in.....$5.00

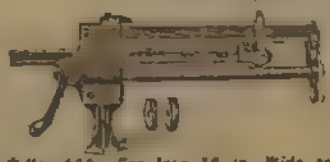
No. IF—IMPROVED; Length 20 in., with Fold Rest, Ridge Shoe, Weight each about 15 lbs. . . . $8.00

Packed Loose.

‡TINNERS' TOOLS AND MACHINES.

‡GROOVING MACHINES

Improved Patent



Solid Cast Iron, Japanned, with Solid Polished Steel Roll and Supporting Bar; Japanned Steel Crank, Length 10 in., with Plain Hardwood Handle

Capacity for all kinds of Metal up to 24 Gauge.

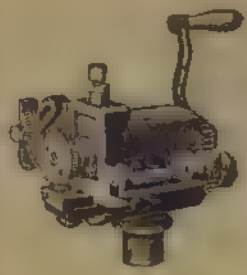
Each

‡No. 120—*For Iron 36 in. Wide or Less; Size of Grooving Rolls ⅜, ½, ⅝ and ¾ in.; Length over all 48 in.; Height over all 12½ in.; Width 6 in.; Weight about 100 lbs.*.....$33.00

In Using this Machine, the Operator can See his Work During the Whole Process of Grooving; Seams can be formed on the Inside or Outside of the Cylinder and can be used on all Vessels not less than 2 in. in Diameter. Each Machine equipped with 4 Rolls, 3 of which are Grooved in different sizes, and the other for flattening purposes. When the Rack is thrown back to the Standard, the Grooving Roll is Lifted from the Lower Bar and can be easily recessed for the purpose of changing the rolls.

One in a Wood Box

‡STOW'S PATENT RIM MACHINES.



This Machine will form, flare and edge straight strips of tin into perfect rims at one operation. It contracts, but does not corrugate the metal. It is adjustable, so that the rims of different widths can be formed. It is adapted for general use in tin shops, as all strips of metal can be utilized. It has been thoroughly tried and will do the work well. It is adapted to material as thick as No. 24 Gauge.

‡No. 8T—*With Stand; Weight each about 70 lbs.*.....*Each,* $35.00

Extra Upper or Lower Face for Stow's Patent Rim Machine .....*Each,* $3.00

Packed Loose

‡DOUBLE SEAMING MACHINES.

HULBERT'S PATENT
TEN DISCS—FOUR FACES

This Machine is adapted to all kinds of Flaring and Straight work, Coffee and Tea Pots, Oval and Round Boilers, and Raised work. It deflects the ware after it is soldered, thereby adding both strength and Durability to the article.

Extra Discs of any size and Bevel and duplicate parts of the Machine furnished to order.

This Machine can be used on metal as thick as No. 26 Gauge

‡No. 1—*With Deflector; Weight each about 197 lbs.*.....*Each,* $36.00

‡No. 1W—*Without Deflector. Weight each about 191 lbs. Each*.....$30.00

Packed Loose

‡SETTING DOWN MACHINES.

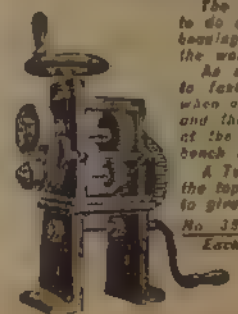
Solid Cast Iron Japanned Frame. Polished Steel Gear Wheels and Faces with Adjustable Boxes and Adjusting Screw; Malleable Iron Crank with Plain Wood Handle; Complete with Standard for use in Attaching Machine to Bench.

Can be used on Material as Ic. 22 Gauge

‡No. ASD—*AMERICAN with Standard. Diameter of Lower Roll 3 in. Diameter of Upper Roll 2 in. Length over all 9 in. Height over all 21½ in. Width 8½ in. Weight each about 20 lbs.* $17.40

One in a Wood Box

‡WIRING AND TURNING MACHINES



The Machine illustrated above can be arranged to do a variety of work, such as wiring, turning, beading, etc., by making special rolls adapted to the work to be performed.

As shown in the cut, it has a frame arranged to fasten to the bench with screws, but usually when operated by hand the lower frame is removed and the upper frame, which is made with a base at the bottom, can be set into a standard on the bench similar to a small machine standard.

A Turning Machine is used in beading or curling the top of a vessel for the wire which is inserted to give it additional strength and finish.

No. 39—Special, Weight each about 140 lbs.

Each .....

Packed Loose

‡SAMPSON PUNCHES.

Sampson Punch, Bolt Fastened, Wrought Iron Links.

Warranted to punch No. 8 iron with "stay bolts," and No. 12 without "stay bolts." Depth of gap, 18 in.; Will center on 30 in. sheets without "stay bolts," and on 7 in. sheets with "stay bolts." Accompanying each machine are three sets of Dies and Punches, viz., ⅛, 3/16 and ¼ in.

‡No. 5—*Improved; Weight each about 95 lbs.*.....*Each,* $30.00

Packed Loose

‡PORTABLE LEVER PUNCH

Has Toggle Movements, making it a Rapid Acting, Powerful Tool. Easy to Operate.

Malleable Iron Frame; Polished Steel Handles; Hardened Steel Dies and Punches; Length over all 17 in.; Height (when Closed) 8 in.; Depth of Throat 6⅞ in. from Center of Punch to Frame; Complete with 3 Dies and 3 Punches, Sizes, ⅛, 3/16 and ¼ in.; Can be used on material up to No. 20 Gauge.

‡No. 10P—*Weight each about 18 lbs.*.....$12.80

Packed Loose

‡BENCH AND SLITTING SHEARS.

These Shears are constructed on entirely new principles. They surpass all other Shears in the variety of work performed.

They will do the work of ordinary bench shears, over which they have the following advantages. The length of cut is longer to the same movement of the hand, the same pressure of the hand will cut thicker stock, they cut with the same ease at all points of the cut, while ordinary bench shears cut harder near the point than near the bolt.

The lower blades of these Shears are stationary, so that when cutting to line the mark may easily be followed with accuracy. The blades are so constructed that the line drawn is always exposed to the view of the operator.

The lift of the upper blade is adjusted to any desired height by a screw in the lever. When so adjusted as to permit the sheet to be passed through under the blades, the rear gauge may be so set as to cut slits, or square, octagonal, hexagonal, or any other shaped hole, with straight sides, in the center of a sheet of metal 20 inches square, or less.

They will cut round or elliptical bottoms for vessels of any size having a radius of 2 inches or more.

The front table can be removed at pleasure, and should be removed when cutting to line. By placing this table in position as seen in the cut, and fastening gauge in proper place, round gauge plates can be obtained ready for turning the lock. This table is so graduated that at a glance the gauge can be set at any desired angle between 45 and 90 degrees.

The blades can be easily removed and ground. The shears are so constructed that they can be readily adjusted, and with proper care should last a lifetime. When used as ordinary bench shears the table should be removed.

‡No. 7—*6 INCH BLADE, 8½ in. Throat; Will cut No. 18 Iron; Weight each about 132 lbs.*.....*Each,* $60.00

‡No. 8—*9 INCH BLADE, 12 in. Throat; Will cut No. 18 Iron, Weight each about 200 lbs.*.....*Each,* $120.00

Packed Loose

‡CIRCULAR SHEARS

Newton's Patent.

WITH TWO PAIRS DISCS—ONE PAIR EACH 1⅝x5⅞ INCHES IN DIAMETER

Newton's Circular Shears will cut Circles from 3 to 4 inches in Diameter from material not thicker than No. 26 gauge.

‡No. NE—*NEWTON'S; Weight each about 125 lbs.*... *Each,* $44.00

Packed Loose

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

TINNERS' TOOLS AND MACHINES.

‡ROTARY SHEARS

FLANDER'S PATENT CIRCULAR SHEARS

Will cut Circles from 2½ to 23 in. in diameter from material not thicker than No. 24 gauge.

‡No. 1—For Hand, for Tinners' use with four pair Discs. One pair each of 1¾, 3, 6⅞ and 7⅝ in. in Diameter; One pair Cutters and Edge Turner; Weight each about 110 lbs.....Each, $54.00

Packed Loose.

‡ROTARY SHEARS.

Savage's Patent Combination Circular Shears

These Shears are made so they can be used by Hand or Power, but are without burring attachment. They have an adjusting screw, and a scale on the bed, so that a very accurate adjustment can be made.

	Each
‡No. 00—With One Pair Discs, not over 12 in.; Will cut Circles from 6 to 43 in. in diameter from No. 16 Iron; has a Pulley 14x6¼ in.; Weight each about 1200 lbs.	$900.00
‡No. 0—With One Pair Discs, not over 12 in.; Will cut Circles from 6 to 36 in. in diameter from No. 20 Iron; has a Pulley 13x3½ in.; Weight each about 800 lbs.	$541.00

	Per Pair
‡Extra Cutters for Nos. 00 or 0 Rotary Shears	$6.50
‡Extra Cutter Studs for No. 0 Rotary Shears	0.00
‡Extra Discs for Nos. 00 or 0 Rotary Shears, not over 15 in.	16.20

Packed Loose

SQUARING SHEARS.

HULL'S ACME

For Cutting Sheet Metals; Can also be used for Cutting Leather, Cloth, Paper, Hard or Soft Rubber, etc.

Solid Cast Iron Frame, Japanned, Securely Bolted, Tempered Steel Blade and Plate. This Machine is arranged with Top and Side Extension Tables, the Side Tables being so Hinged that they can be folded; Back and Front Gauges for Squaring, Stopping and Cutting at any desired Angle, without necessity of marking the Sheets; Will Cut Iron up to 18 Gauge.

No. 73M—ACME. For Iron 37 in. Wide or Less; Length over all 60½ in.; Height 45 in.; Width 28 in.; Weight each about 700 lbs.....Each, $144.00

One in a Wood Box.

HULL'S ACME

For Cutting Sheet Metals

Solid Cast Iron Frame, Japanned, Securely bolted. This Machine is Arranged with Table, Back and Front Gauges for Squaring, Stripping and Cutting at any Desired Angle without Necessity of Marking the Sheets. Will Cut Sheet Iron up to 18 Gauge.

No. 2—ACME; For Iron 30 in. Wide or Less; Length over all 42 in.; Height 45 in.; Width 28 in.; Weight each about 450 lbs.....$90.00

One in a Wood Box.

TINNERS' TOOLS AND MACHINES.

‡SQUARING SHEARS.

Cornice Makers' Shears.

WITH LEVER ARC AUTOMATIC GAUGE

A special shear to meet the wants of cornice makers and others requiring a first class shears of great capacity and embodying the latest improvements. As shown in the above illustration, these shears have an Automatic Hold Down attachment, gauges for squaring and cutting at angles, and a New Device for working the back gauge with arm and slide in place of bevel gears and screws as heretofore used.

The lever is operated from the center of the shears on a graduated arc which indicates the position of the gauge, and from the front instead of the back of the shears.

To cut sheets ⅜ to 11 in. wide, simply move the lever to the corresponding measurement indicated on the arc.

To cut from 11 to 20 in. in width, move the gauge to the second pocket in the slides and operate the lever in the same manner as in cutting narrow widths. These shears are made in two sizes only, and guaranteed to cut No. 22 iron the entire length of the blades.

	Each
‡No. 120—Lever Arc Shears, 33 in. Long.; Length of Stand 7 ft. 11 in.; Width of Stand 4 ft. 6 in.; Height over all 5 ft. 6½ in.; Weight each about 1700 lbs.	$400.00
‡No. 240—Lever Arc Shears; 97 in. Long, Length of Stand 9 ft. 10 in.; Width of Stand 4 ft. 6 in.; Height over all 5 ft. 7½ in.; Weight each about 2400 lbs.	500.00

Packed Loose

STOW'S POWER SQUARING SHEARS

The Power Shears herewith illustrated are of great capacity. The Gate or Cutter Bar is very Strong and slides on accurate fitted ways which are provided with gibs for adjustment to compensate for wear. In front of the Cutting Blades is a Clamping Bar, made adjustable for different thicknesses of metal which holds the sheet in a firm position while being cut. The gears are machine cut and have very broad faces. Front Extension Arms and the usual Front and Side Gauges. It also has an extra back gauge for use in cutting Narrow Strips. On the top of the bed plate deep lines are cut two inches apart, parallel with the Cutting Edges of the Blades, which facilitates the accurate placing of the Bed Gauges. These Shears are guaranteed to cut Iron or Steel as thick as No. 10 gauge their whole length. Geared to run from 200 to 260 revolutions per minute.

	Each
‡No. 31XX—Will cut 3/16 Iron, 31 in. long, Geared 5 to 1; Weight each about 2700 lbs.; With one Fly Wheel	$1000.00
‡No. 42XX—Will cut No. 10 Iron, 42 in. long, Geared 4 to 1; Weight each about 3100 lbs., With one Fly Wheel	800.00
‡No. 60XX—Will cut No. 10 Iron, 60 in. long, Geared 4 to 1; Weight each about 3650 lbs.; With two Fly Wheels	1050.00
‡No. 72XX—Will cut No. 10 Iron, 72 in. long, Geared 4 to 1; Weight each about 4400 lbs.; With two Fly Wheels	1200.00

Packed Loose.

SHEARS AND PUNCHES.

Combined.

Japanned Wrought Iron Body, Polished Steel Blades. Length of Handle 25 in.

No. 1—Cut 4½ in.; Will Punch to Center of a Circle 5¼ in. in Diameter; Cut Iron up to ⅛ in. Thick and Narrow Bars 3/16 and ¼ in.; Used with Punches ⅛, 3/16, ¼ and 5/16 in.; Will Punch ⅛ in. Iron up to 2⅞ in. from Edge; Weight each about 100 lbs.....$32.00

No. 2—Cut 6½ in.; Will Punch to Center of a Circle 7⅛ in. in Diameter, Cut Iron up to ¼ in. Thick and Narrow Bars 3/16 and ¼ in.; Used with Punches ⅛, 5/16, ⅜ 5/16 and ⅜ in.; Will Punch 3/16 in. Iron up to 2⅞ in. from Edge; Weight each about 120 lbs.... 40.00

Packed Loose

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

TINNERS' TOOLS AND MACHINES.

‡SLITTING AND SQUARING SHEARS.

Continuous Cutting or Gap Shears.
WITH HOLD DOWN ATTACHMENT

These Shears are made from entirely new patterns, and are arranged with gauges for cutting Sheet Metal of any length into strips from ⅛ in. to 18 in. in width; Sheet Metal 36 in. wide may be cross-cut at any point desired.

To cut Metal into strips longer than 36 in., the Gauges at the end of the Shears should be removed. No other adjustment is necessary.

The Hold Down attachment is operated by hand and slides on independent ways, so that when the Blades are in motion the Hold Down remains in a fixed position. It can be operated from either end of the Shear by means of the small hand wheels. It is arranged with eccentrics, so that when the Hold Down is brought against the plate it holds itself firmly in position.

They are fitted with Side Extension Tables for supporting long sheets of metal.

Distinct lines are placed in the bed plate parallel with the Blades, to aid in adjusting the gauges.

Adjustable Gauges are provided for the Side Extension Tables, to be used when cutting long sheets.

The handle is so arranged that the operator can be instantly changed to any one of four positions, as may be most convenient. These Shears are now furnished with an Extension Handle, as shown in the illustration. This Extension will be found useful when cutting metal heavier than No. 18 gauge.

	Each
‡No. 84—FOR FOOT POWER; 30 in., 16 in. Throat; Will cut No. 16 Iron; Weight each about 1275 lbs.	$300.00
‡No. 88—FOR FOOT POWER; 37 in., 16 in. Throat; Will cut No. 16 Iron; Weight each about 1450 lbs.	350.00
No. 186—FOR POWER, 30 in., 16 in. Throat, Will cut No. 16 Iron, Weight each about 1700 lbs.	450.00

Packed Loose.

ROOFING TONGS.

PATENT.

With Narrow Jaws for Locking the Edges of Tin Roofing Plates. Japanned Malleable Iron with Steel Clamps.

These Tongs will Turn any Edge to 10 in., by Adjusting the Thumb Screw on the Sliding Gauge to the Desired Position.

Are Adapted to Edging and Bending all kinds of Ordinary Sheet Metal.

Can be used on any Material as Thick as 22 Gauge.

No. 0—REESE'S; Length over all 26 in.; Width of Jaws 1¼ in.; Weight each about 12 lbs. ..... Each, $15.70

Packed Loose.

COMMON.

Japanned Malleable Iron, with Steel Clamps. Length over all 24 in.; Width of Clamp 1½ in.

These Tongs are used on the Roof for Drawing Together the Two Layers of Tin before Clearing.

No.	C. 100	C. 114	C. 112
Size of Steel inches	1	1¼	1½
Weight each about, lbs.	15	15	20
Each	$4.80	4.80	4.80

Packed Loose.

DOUBLE SEAMERS.

BURRITT'S PATENT.
For Standing Lock.

Japanned Malleable Iron, with Hollow Turned Iron Handle and Malleable Head. With these Roofing Double Seamers the [illegible] Locks of Tin [illegible]

They Do not Crimp the Tin and leave the Turned Locks of Uniform Height.

Do not Deface the Surface of the Roof; [illegible]

Will Double Seam Hips and Ridges with Perfect Ease. Can be used by either Hand or Foot Power. [illegible] Faster than by Hand. Will Turn Edges of Tin [illegible] Width.

Per Set of 2 Pairs

No. 0 BURRITT'S PATENT, with Wrought Iron Handles, for [illegible] Locks, Length over all 25¾ in.; Width of Steel Blade 3½ in. Weight each about 40 lbs. $15.00

Packed Loose.

‡ Goods marked thus ‡ are not carried in stock and can only be furnished by shipment direct from factory.

TINNERS' TOOLS AND MACHINES.

GUTTER TONGS.

Japanned Malleable Iron Handle, Tinned Steel Jaws.

No. GT — GUTTER TONGS; Length over all 37 in.; Width of Jaws [illegible] in.; 12½ in., Weight each about 10 lbs. ..... Each, $8.00

ROOFING DOUBLE SEAMERS.

Japanned, Solid Cast Steel, to Match Roofing Tongs.

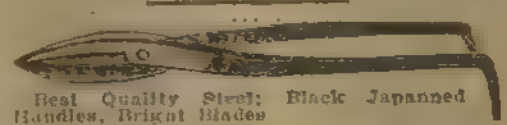
Nos.	RDS 1	RDS 1½	RDS 1½
Size of face, inches	⅞ x 1	1 x 1	1 x 1½
Length over all, inches	7½	7½	8
Width, inches	5	4	6½
Weight each, lbs.	7	8	9
Each	$1.50	1.50	1.50

PIPE CRIMPER.

HANDY.

No. 1 — Wrought Iron Handles, Japanned Finish; Tempered Steel Jaws; Length over all 12 in.; Weight per dozen about 20 lbs. ..... Per Dozen, $12.00

BENCH SHEARS.



Best Quality Steel; Black Japanned Handles, Bright Blades.

Nos.	00	0	1	2
Length over all, inches	13	15	18	21½
Length of Cut, inches	11¾	13	15½	17½
Length of Bench Heel, inches	4½	4¾	4⅞	4⅞
For Cutting Iron, Nos.	16	18	20	22
Weight each about, lbs.	25	30	45	60
Each	$21.60	19.20	12.80	11.20

Nos.	3	4	5	6
Length over all, inches	23	11¼	28	30
Length of Cut, inches	9½	9	6½	6½
Length of Bench Heel, inches	4¼	4	3½	3½
For Cutting Iron, Nos.	19	20	21	22
Weight each about, lbs.	7	13	9	8
Each	$9.00	8.00	6.40	6.00

Packed Loose.

PIPE SHEARS.

TRIUMPH.

Each

No. 48T — Wrought Iron Handles, Black Japanned Finish; Bright Steel Blades, Cut 2⅜ in.; Length over all 10½ in.; Weight per dozen about 24 lbs.. $1.20

One-twelfth Doz. in a Cardboard Box.

CUTTING SHEARS

BERRIDGE'S PATENT DOUBLE.

No. 21B — Wrought Iron Handles, Black Japanned Finish; [illegible] Steel Blades, [illegible] Cut; Straight Jaws, Offset to Side; Length over all 13½ in.; Weight per dozen about 36 lbs. ..... Each $5.50

For cutting Pipe for Stoves and Furnaces.

One-twelfth Dozen in a Cardboard Box.

THE No. 21B PIPE CUTTING SHEAR has a Pointed Blade, which is Ready [illegible] to Start a Hole Desired to begin the Cutting Off the Bottoms of Pails, [illegible] for Cutting Round Stove Work [illegible] Attached to Stove Pipe Bench or Screw. The Blades of these Shears are Hollow Ground, and the Cutting Edges are of Steel.

TINNERS' TOOLS.

DENTAL SNIPS.

KEEN KUTTER

Per Dozen

No. K11D — Solid Cast Steel Nickel Plated Blades; Black Japanned Handles; Length of Cut 1¾ in.; Length over all 7½ in.; Weight about 5¼ ozs. $15.00

One-half Dozen in a Cardboard Box

TINNERS' SNIPS.

For Quality, Finish and General Utility They are Not to be Equaled.

Two Snips in One. Very Useful in the Work Shop.

KEEN KUTTER

BUFFALO PATTERN; Combination Circular and Straight; Jaws Ground and Shaped in such a manner that they can be used readily for Cutting Curves and Irregular Shapes as well as for Straight Work, thus combining all the advantages of both the Circular and Straight Snips in One Tool; Black Japanned Drop Forged Handles; Highest Grade Crucible Steel Laid Blades

Nos.	K6½	K7	K8	K9
Length of Cut, inches	4⅜	4	3½	3
Length over all, inches	15	13¾	13⅛	12¾
For Cutting Iron, Nos.	24	25	26	27
Quantity in a Box.	1	1	1	1
Weight each about, lbs	3	3	2¾	2
Each.	$4.50	4.00	3.30	2.70

Nos.	K10	K11	K12
Length of Cut, inches	2⅝	2¼	2⅛
Length over all, inches	11½	9	8½
For Cutting Iron, Nos	28	28	30
Quantity in a Box.	1	6	6
Weight each about lbs	1	¾	½
Each	$2.50	2.20	2.00

OAK LEAF"

New Combination Pattern Snips; Jaws Ground and Shaped in such a manner that they can be used readily for Cutting Curves and Irregular Shapes as well as for Straight Work, thus combining all the advantages of both the Circular and Straight Snips in One Tool; Black Japanned Drop Forged Handles; Special Crucible Steel Laid Blades.

Nos.	E400	E350	E300
Length of Cut, inches	4	3½	3
Length over all, inches	14	12¾	11½
For Cutting Iron, Nos	25	26	27
Weight each about, lbs	3	2½	2
Each	$3.60	2.80	2.40

One in a Cardboard Box.

BAY STATE".

Solid Cast Iron, Case Hardened Bright Blades; Black Japanned Handles; Length of Cut 3 in. Length over all 12 in.; Adapted for 28 Gauge Iron

Each

No. B97—Weight each about 1¼ lbs. $0.60

One-half Dozen in a Cardboard Box.

For Cutting Screen Wire Cloth, Light Bench Work and General Use on Store Counter

P. S. & W. STRAIGHT FORGED STEEL.

No. 99—SOLID FORGED STEEL Throughout (Not Steel Laid); Polished Blades; Black Japanned Handles. Length of Cut 3 in.; Length over all 12½ in.; Weight each about 1½ lbs. ..... Each, $1.40

Packed Loose.

TINNERS' TOOLS.

TINNERS' SNIPS.

P. S. & W. CIRCULAR

Steel Laid Blades and Black Japanned Drop Forged Handles.

Nos.	7C	8C	9C	10C
Length of Cut, in.	4	3½	3	2½
Length over all, in.	13¾	13½	13	10¾
For Cutting Iron, Nos.	25	26	27	28
Weight each about, lbs.	2½	2	1½	1
Each.	$5.00	4.20	3.60	3.30

One in a Cardboard Box.

SEARIGHT'S COMPOUND LEVER, STRAIGHT.

Main Blade, Shear Blade and Lever Handle are Drop Forged Solid Crucible Tool Steel, Blades are Tempered and Ground, Lever Handle Pivots on Main Blade by a Screw with Hexagon Nut; To the Large Shoulder on Lever Handle is an Upper and Lower Strap, Firmly Riveted Together, Connecting Lever Handle to Shear Blade and thus Forming the Compound Lever; All Joints are Carefully Milled; Bows Black Japanned

Nos.	L8	L10	L12	L14
Length of Cut, in.	1⅜	2½	3	3½
Length over all, in.	8	10	12	14
For Cutting Iron, Nos.	20	20	18	16
Weight each about, lbs	⅝	1½	2¾	3
Each.	$1.92	2.88	3.84	4.48

One in a Cardboard Box.

P. S. & W. STRAIGHT.

Steel Laid Blades and Black Japanned Drop Forged Handles

Nos.	6½P	7P	8P	9P	10P
Length of Cut, in.	4½	4	3½	3	2½
Length over all, in.	16½	14	13½	12	11
For Cutting Iron, Nos.	24	25	26	27	28
Weight each about lbs	3	2½	2	1½	1
Each.	$4.30	3.60	2.90	2.20	2.00

HEINISCH'S STRAIGHT

Steel Laid Blades and Black Japanned Drop Forged Handles

Nos.	6½H	7H	8H	9H
Length of Cut, in.	4½	4	3½	3
Length over all, in.	15	13¾	13½	12¼
For Cutting Iron, Nos.	24	25	26	27
Weight each about, lbs.	3	2	2¼	2
Each.	$3.60	3.00	2.40	1.80

Nos.	10H	11H	12H
Length of Cut, in.	2½	2¼	2⅛
Length over all, in.	11½	9	8½
For Cutting Iron, Nos.	28	28	30
Weight each about, lbs.	1	¾	½
Each.	$1.70	1.50	1.30

STRAIGHT

Samson Brand Made by P. S. & W. Co. Steel Laid Blades and Black Japanned Forged Handles

Nos.	46	47	48	49	50
Length of Cut, in.	4¼	4	3½	3	2½
Length over all, in.	14	13¼	11½	11	
For Cutting Iron, Nos.	24	25	26	27	28
Weight each about, lbs.	3½	2½	1¾	1½	1
Each.	$3.50	3.00	2.50	1.80	1.70

One in a Cardboard Box

TINNERS' TOOLS.

Solid Cast Steel Japanned, with Polished Tempered Faces. Especially adapted for Tin Shops and Mechanics Benches

BEAKHORN STAKE.

No. 2B—Flat End 31½ in.; Round End 18 in.; Height over all 17¾ in.; Wgt. each about 40 lbs.....Each, $21.20

DOUBLE SEAMING STAKE.

No. 1 Large End 17 in.; Small End 12 in.; Height over all 17 in.; Weight each about 40 lbs.....Each, $14.40

CANDLE MOLD STAKE.

No. CM—Small End 18 in.; Horn End ... Height over all 10¾ in. Wgt. each abt. 5 lbs.....Each, $4.40

HATCHET STAKE.

Nos.	2	3	4
Length of Blade, in.	14½	13	11
Height over all, in.	16⅛	15	14
Weight each about, lbs.	13	11	10
Each	$6.80	5.60	4.40

BLOWHORN STAKE.

No. BH—COMMON; Large End 9 ... Round End 17½ in.; Height over all 11 in.; Weight each about 40 lbs.....Each, $8.00

NEEDLE-CASE STAKE.

No. N Flat End 8 in. Small End 10⅝ in. Height over all 9½ in. Weight each about 5 lbs.....Each, $3.60

HOLLOW MANDREL STAKE.

No. AM—Length over all 30 in. Width 4 in. Weight each about 50 lbs.....Each, $8.80

Packed Loose Securely Wrapped

Made of Japanned Wrought Iron with Steel Faces.

‡CREASING STAKES

With 9½ in. Standard

‡No. 1&1½—1&1½ in.; Weight each about 12½ lbs.....Each, $7.20

‡CREASING STAKES WITH HORN.

Round End 12 in. Long; Flat End 8½ in. Long; Length of Standard 9½ in.

‡No. RE—Round End. Weight each about 12½ lbs. Each.....$8.10

‡COPPERSMITH'S SQUARE STAKES.

Length of Standard 16 in.

‡No. 2584½—2⅝x6½ in.; Weight each about 11 lbs Each.....$6.30

‡BOTTOM STAKES

	Each
‡No. 1—1¾x16½ in.	$1.80
‡No. 2—1½x16 in.	1.45
‡No. 3—1⅛x16 in.	1.20
‡No. 4—1 x16 in.	.90

Weight each about 3 lbs.

Packed Loose.

TINNERS' TOOLS.

Made of Japanned Wrought Iron with Steel Faces.

‡BEVEL EDGE SQUARE STAKES.

‡No. 1—3x3 in. Face; Length 13 in.; Weight each about 16 lbs.....Each, $10.80

‡No. 2—2⅝x2½ in. Face; Length 12 in., Weight each about 14 lbs.....Each, $9.00

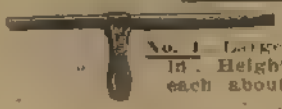
‡MANDREL STAKES.

Nos.	‡0	‡1	‡2	‡3
Size, in.	2½x2½	2⅜x2⅛	2⅛x2⅝	1x2
Length of Head, in.	14⅛	13	12⅝	12
Length of Standard, in.	3 ft 4⅞ in.	2 ft 10 in.	2 ft 3½ in.	2 ft 3½ in.
Weight each abt., lbs.	87	44	37	31
Each	$10.80	9.60	7.20	6.40

Packed Loose.

Solid Cast Steel with Polished Tempered Surfaces Especially adapted for Tin Shops and Mechanics' Benches.

CONDUCTOR STAKE.



No. 1 Large End 15 in., Small End 11½ in. Height over all 10¾ in.; Weight each about 30 lbs.....Each, $6.40

DOUBLE SEAMING STAKE.

Each

No. DS With Four Assorted Heads. Length over all 29⅞ in. Height over all 10⅝ in. Wgt each about 115 lbs..$14.40

One in a Wood Box.

STOVE PIPE MANDREL.

No. SP—ADAMS; Length over all 36 in. Diameter 4½ in.; Complete with Heavy Bench Clip; Weight each about 38 lbs.....Each, $6.00

One in a Crate

SQUARE STAKE.

No. CS COMMON. Size of Face 2⅝x4½ in.; Height over all 16 in. Weight each about 10 lbs.....Each, $4.80

BENCH PLATES.

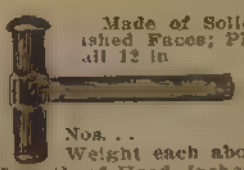
Solid Cast Iron, Japanned with Polished Face.

	Each
No. 0—Size 48x12 in.; Weight each about 85 lbs	$14.40
No. 1—Size 37x8 in.; Weight each about 55 lbs	8.00

One in a Wood Box

RAISING HAMMERS.

WITH HANDLES.



Made of Solid Cast Steel, Japanned, with Polished Faces; Plain Hickory Handle; Length over all 12 in.

Nos.	2	3	4
Weight each about, lb	3¾	2¾	1⅞
Length of Head, inches	7¼	6½	6
Each	$2.80	2.10	1.30

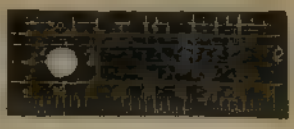
Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

TINNERS' TOOLS.

TINNERS' RULES AND STRAIGHT EDGES.

Showing the First 3 Tables on Face of One Side of the Rule.



Showing 2 Inches of the Length of the Rule.

Each

No. TP—PLAIN, POLISHED; 3 ft. Long, 1¼ in. Wide, ⅛ in. Thick $5.50

No. TN—NICKEL PLATED 3 ft. Long, 1¼ in. Wide, ⅛ in. Thick 6.00

Is laid off on One Side with Two Rows of Figures. The First Row is laid off like an Ordinary Steel Square, by eighths and inches, up to 3 feet. The Second Row is a line of Circumferences, Divided into 113 Equal Parts; each of these Divisions is again Subdivided into 8 Equal Parts, the Large Divisions representing an inch to the scale, and the Subdivisions an eighth inch. Therefore, against any Diameter we can find Circumferences in this line to a scale of inches and eighths of inches.

The Reverse Side of the Rule gives the Dimensions of Measures and Cans. The First Two Tables are for Flaring Measures. First, Liquid Measures from 1 to 5 gallons; Second, Dry Measures, from 1 peck to 3 bushels, giving Diameter of Top and Bottom, and Height of each Size and Kind

The Third Table is for Cans with Pitch or Cone Tops, from 1 to 10 gallons, giving Diameter of Top and Body, and Compass Mark for Striking Breast.

The Fourth Table is for Flat Top Cans, from 100 to 200 gallons (31 Different Sizes), giving Height and Diameter.

The Fifth Table is for Dry Measure, from 1 quart to 3 bushels, giving Height and Diameter.

Packed Loose; Weight Each about 1⅛ lbs.

TINNERS' TOOLS.

LANTERN CHISELS.

Made of Solid Cast Steel, Japanned, with Polished Sharpened Edge.

No. 0—Length 5 in.; Width ⅛ in.; Weight each about ¼ lb. ..... Each, $0.10

HAND GROOVERS.

Solid Cast Steel, Japanned, with Polished Tempered Face.

Nos.	00	0	1	2	3	4	5
Size of Groove, in..	1/16	7/16	13/32	5/8	5/16	¾	8 15/16
Length over all, in.	6	5½	5½	5½	5	5	5
Wgt. each abt., lbs.	1¼	1	¾	¾	¾	½	½
Each.....	$0.90	.90	.80	.80	.90	.90	.50

HOLLOW PUNCHES.

Solid Cast Steel, Japanned, with Polished Edge. Tempered and Sharpened.

Nos.	HP¼	HP5/16	HP⅜	HP½	HP⅝	HP¾	HP⅞
Size, Inches..	¼	5/16	⅜	½	⅝	¾	⅞
Length over all, inches .	5½	5½	5½	5½	5½	5½	5½
Wgt. abt., lbs.	¼	¼	⅜	⅜	⅜	½	½
Each.....	$0.30	.35	.40	.60	.70	.90	1.00

Nos.	HP1	HP1⅛	HP1¼	HP1⅜
Size, Inches.	1	1⅛	1¼	1⅜
Length over all, inches.....	5½	6	6	6
Weight each about, lbs.....	⅝	⅝	⅝	⅝
Each.....	$1.20	1.26	1.50	1.66

Nos.	HP1½	HP1⅝	HP1¾	HP2
Size, Inches .	1½	1⅝	1¾	2
Length over all, inches.....	6	6	6	6½
Weight each about, lbs.	¾	1	1¼	1½
Each	$1.80	1.96	2.10	2.00

Packed Loose.

E. C. SIMMONS KEEN KUTTER CUTLERY TOOLS

"The Recollection of QUALITY Remains long after the PRICE is forgotten."
—E. C. SIMMONS.
Trade Mark Reg. in U. S. Pat. Office.

E. C. SIMMONS KEEN KUTTER CUTLERY TOOLS

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

CYPRESS BOWLS

Inches	8	9
Each	$4 15	6.90

ILLINOIS BOWLS

Illinois Bowls—8 in., Bright and Mat Finish..... Each $4 65

TROPHY BOWLS

Inches	8	9
Each	$4 15	6 90

MAY ROSE BOWLS

Inches	8	9
Each	$6 50	9.00

LEADER BOWLS

Leader Bowls 8 inch..... Each $2 40

ADAM'S PUNCH BOWLS

Inches	8	9
Each	$8 75	12 50

Bowl and Foot can be used separate

SILVER PLATED HOLLOW WARE

QUADRUPLE SILVER PLATED

Each

No. 285—Coffee or Tea Pot, 8¾ in. High, Hand Engraved and Burnished.....$4.50

Each

No. 285—Creamer, 4 in. High, Gold Lined, Hand Engraved and Burnished $2 80

Each

No. 285—Spoon Holder, 4 in High, Gold Lined, Hand Engraved and Burnished.....$2 80

Each

No. 285—Sugar Bowl, 4 in High, Hand Engraved and Burnished $3 30

Each

No 285—Butter Dish, 6½ in. High, Hand Engraved and Burnished . . . $3 30

Each

No. 285—Syrup and Tray, 6 in. High, Hand Engraved and Burnished . . $4 50

Per Set

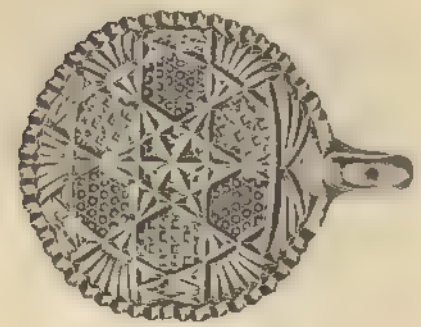
No. 285-6—Six Piece Tea Set, One Each of the Above Articles $20 00

HUEY & PHILP HARDWARE COMPANY.

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

SHOHOLA NAPPIES



	Unhandled		Handled	
Inches	5	6	5	6
Per Dozen	$16 25	18 75	$18.75	21 25

MANHATTAN NAPPIES

	Unhandled		Handled	
Inches	8		8	
Each	$4 40		$5.65	

WARSAW NAPPIES

	Unhandled			Handled		
Inches	5	6	8	5		6
Per Dozen	$16 25	18 75	45.00	$16 25		18.75

MAY ROSE SAUCERS

	Unhandled				Handled	
Inches	5	6	8	9	5	6
Per Dozen	$23 50	26 50	66 00	90 00	$25.00	30 00

LAKEWOOD MAYONNAISE AND PLATE

	Per Set
Mayonnaise and Plate	$5.00

ILLINOIS FOOTED CAKE

	Each
No. 1495—3½x8 in.	$4 40

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

MAY ROSE BON BON

	Each
No. 6—8 in.	$2.50

BERYL BON BON

	Each
No. 4371—6 in. Long, 5 in. Wide at Center	$2.75

GARY SPOON TRAYS

	Each
Gary Spoon Trays—7 in.	$1.60

KING ICE CREAM TRAYS

	Each
King Ice Cream Trays 14x7 in.	$6.25

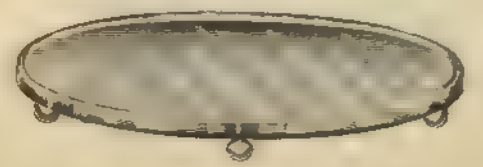
MAY ROSE CELERY TRAYS

	Each
May Rose Celery Trays—11½x5 in.	$5.50

CARDINAL CELERY TRAYS

	Each
Cardinal Celery Trays 11x4½ in	$3.00

PLATEAUS



No. 147—Silver Plated Edge and Feet

Inches	10	12	14
Each	$1.00	1.20	1.50

PLATEAUS

No. 21—Beveled and Beaded Mirror

Inches	8	10	12	14	16
Each	$2.25	3.15	4.00	4.70	6.50

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

DAISY COMPORTS

	Each
Daisy Comports 9x9 in	$6 90

DOVER COMPORTS

	Each
Dover Comports 6x9 in	$4 40

BROADWAY COMPORTS OR FOOTED JELLY

	Each
Broadway Comports or Footed Jelly 4 in	$2 10

ARBOT COMPORTS

	Each
No. 218 6 in. High	$2 50

BROADWAY SHERBETS

	Per Dozen
No 700	$17.50

BROADWAY FINGER BOWLS

	Per Dozen
No. 287	$15.00

CHICAGO TUMBLERS

	Per Dozen
9 Oz. Water	$7 50
3 Oz. Whiskey	5.00

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

RADIUM WINE SETS

Complete Set—Consisting of One 1 Quart Decanter, Six Wine Glasses and One 12 in. Mirror Plateau	Per Set,	$31.00
Quart Handled Decanter	Each,	12.50
Wine Glasses	Per Dozen,	22 00
12 in. Mirror Plateau	Each,	7.50

BROADWAY WHISKEY SETS

No. 80—Set Complete, Consisting of One 1 Quart Decanter, Six 3 Oz. Whiskey Tumblers and One 12 in. Mirror Plateau	Per Set,	$18.15
Quart Decanter	Each,	7.50
3 Oz. Whiskey Tumblers	Per Dozen,	7.50
12 in. Mirror Plateau	Each,	1.00

ALDEN WATER SETS

Complete Set—Consisting of One 3 Pint Jug, Six Special Tumblers and One 14 in. Mirror Plateau	Per Set,	$12 75
3 Pint Jug	Each,	5.25
Special Tumblers	Per Dozen,	10.00
14 in. Mirror Plateau	Each,	2 50

VESTA WATER SETS

Complete Set—Consisting of One 3 Pint Jug, Six 9 Oz. Tumblers and One 14 in. Mirror Plateau	Per Set	$14 00
3 Pint Jugs	Each,	6 50
9 Oz. Tumblers	Per Dozen,	10.00
14 in. Mirror Plateau	Each,	2 50

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

BROADWAY WATER SETS

Complete Set—Consisting of One 1 Quart Carafe and Six 9 Oz. Tumblers ..... Per Set, $8.10
Quart Carafe ..... Each, 3 75
9 Oz. Tumblers ..... Per Dozen, 8.75

LEAF SUGAR AND CREAM

Per Set
No. 101—Sugar 3x7 in., Cream 3x5½ in. $6.25

JOVE SUGAR AND CREAM

Per Set
No. 4409—Sugar 3½x5¼ in., Cream 3½x6½ in. $6 25

ATLANTA SUGAR AND CREAM

Per Set
No. 104 Sugar 2½x5 in., Cream 2½x6 in $3 00

MAXINE SUGAR AND CREAM

Per Set
No. 250 Sugar 2½x4¾ in., Cream 2½x3½ in. $3 75

HUEY & PHILP HARDWARE COMPANY.

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

SALTS AND PEPPERS

Heavy Sterling Tops

No. 189–49.....Per Dozen, $13.75
No. 189–49.....Per Pair, 2 75

SALTS AND PEPPERS

Sterling Tops

No. 68–1.....Per Dozen, $6.00
No. 68–1.....Per Pair, 1.20

SALTS AND PEPPERS

Glass Tops

No. 136–01. Per Dozen. $5 65
No. 136–01. . Per Pair, 1 20

OPEN SALTS

Per Gross
No. 101—1¾ in. Diameter..$17.50
Per Dozen
No. 101—1¾ in. Diameter...$1.88

KNIFE RESTS

Each
No. 612—3½ in.....$0.70
No. 612—4¾ in..... .90

TOOTH PICK

Each
No. 40—2¼ in Diameter....$0 60

OPEN SALTS

Per Dozen
No. 1092—1¾ in. Diameter. $3 75

MAY ROSE CRUETS

Each
No. 160 .....$5.50

MUSTARD

Each
No. 9701 3½ in High.... $1.70

IOLA OIL

Each
7 in. High.....$3.15

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

MEXICO NAPKIN RINGS

	Each
Napkin Rings	$1 25

EMPIRE NAPKIN RINGS

	Each
Napkin Rings—In Silk Lined Box	$1.10

ONTARIO FERN SETS

Complete Set	Per Set,	$6 25
8 in. Fern Dish and Liner	Each,	4 15
Artificial Fern	Each,	.85
10 in. Mirror Plateau	Each,	1.40

MAYFLOWER FERN DISH AND LINER

	Each
Mayflower Fern Dish and Liner—8 in.	$7.00

MELBA VASES

No. 127			
Inches	8	10	12
Each	$4.00	5.00	6.25
Inches	14		16
Each	$10 00		16 25

VICTORY TRUMPET VASES

Inches	8	10
Each	$2.50	3.75
Inches	12	14
Each	$5 65	8 15

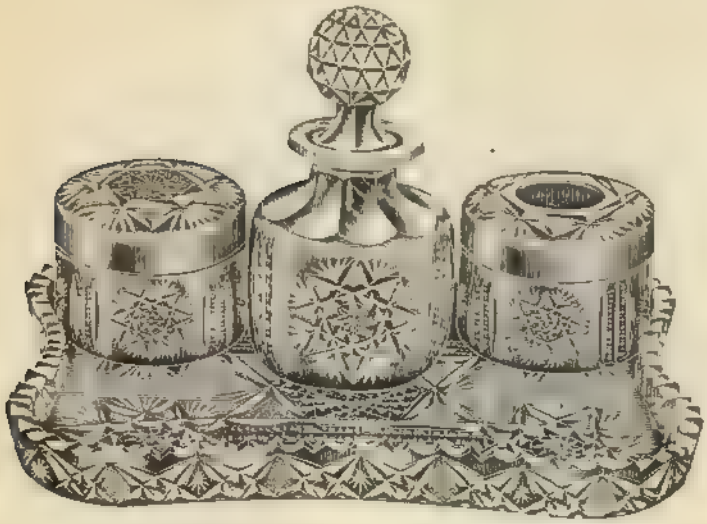
VIOLET LAMPS

	Each
Violet Lamps—13 in. High, 6 in. Shade, Complete with Bulb, Silk Cord and all Attachments	$10 65

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

RENTON DRESSER SETS



Set Complete	Per Set,	$20 00
Tray—11x8 in	Each,	8 75
Cologne—6 Oz	Each,	5 25
Hair Receiver 3¼ in	Each,	3 15
Puff Box 3¼ in	Each,	3 15

COLOGNE

	Each
No. 10181 Height 5½ in	$1 15

CHICAGO PUFF BOXES

Nos.	5	8
Inches	3½	5½
Each	$1.70	3.15

Hair Receiver to Match, Same Price

ANGELO ASSORTMENT

Angelo Pattern,

Daintiest, Prettiest Cutting on the Market

Extra Heavy Blanks, Deeply Cut, Highly Polished.

A Combination Design of Fine Diamonds, Flowers and Leaves.

The Angelo Assortment will Retail Readily at the Special Prices Given Below.

Contents of Assortment.

No. 1—Compote, 9 in.	Each	$6 90	No. 6 Sugar and Creamer	Per Set,	$4.40
No. 2—Three Pint Jug	Each,	9.40	No. 7—8 in. Bowl	Each,	8.75
No. 3—Six Tumblers	Per Set,	8 75	No. 8—6 in. Handle Nap	Each,	3.40
No. 4—10 in. Vase	Each,	6.90	No. 9—Oil Bottle	Each,	3.75
No. 5—6 in Two-Handled Dish	Each,	3 75			

$56.00
Per Assortment

Angelo Assortment—15 Pieces, Every One a Big Seller, Complete Assortment $56.00

One Complete Assortment in a Barrel

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

FLORAL BORDER CUT GLASS ASSORTMENT

FLOWERS CUT IN SATIN FINISH WITH CENTER HIGHLY POLISHED AND BRIGHT POLISHED LEAVES

FLORAL BORDER CUT GLASS—PATTERN No. 27

A Delicate Design of Light Cutting, Representing Wreath of Flowers Delicately Laid Around the Article, Center of Flowers and Leaves are Highly Polished while Petals and Stems of Flowers are Finished in Satin

Assortment Contains Staple Articles Only, 117 Pieces

	Per Dozen		Per Dozen
¼ Dozen Half Gallon Lemo Jugs	$15.00	½ Dozen 5 in. Handled Olives	$ 6.00
¼ Dozen 4 Pint Fancy Pitcher	24.00	1 Dozen 6 Oz. Handled Custards	4 25
1 Dozen 9 Oz. Table Tumblers	2.00	⅓ Dozen 6 in. High Comports	18 00
1 Dozen 8 Oz. Bell Tumblers	2 25	⅓ Dozen Oils, Cut Neck	16 00
1 Dozen 8 Oz. Bell Tumblers, Star Bottom	3.75	⅓ Dozen Sugars and Creamers	6 00
1 Dozen Footed Sherbets	4 00	½ Dozen Salt and Pepper Shakers	8 00
⅛ Dozen 8½ in. Deep Bowls	13 50	1 Dozen Tall Footed Ice Creams	4 75
1 Dozen 4½ in. Deep Nappies	3 75		

Per Assortment

No. 27—Floral Border Cut Glass Assortment—117 Pieces, Staple Articles Only as Enumerated Above, Complete Assortment $46 00

One Complete Assortment in a Barrel

HUEY & PHILP HARDWARE COMPANY.

CROSS CUT SAWS

* DIAMOND EDGE

Made of Finest Grade Saw Steel, Tempered in Oil, Ground and Etched, tried by Hammer and Gull to Exact Gauge. Ground by a Special Process to Five Gauges, Thicker at Center than at Back Edge and at Cutting Edge and Three Gauges Thinner than where Handles are Attached. From Center of Back to Cutting Edge and Heaviest Part of Cutting Edge from Center of Back. This reduces Friction and causes the Saw to run Free and prevents Binding in Log.

Every *DIAMOND EDGE* Cross Cut Saw is Fully Warranted not only against Imperfections, But to Cut as Fast and with as much Ease as any Saw on the

No. DEX149 14x19 Gauge—COTTONWOOD PATTERN TUTTLE TOOTH

Narrow Width Blade; Two Cutting Teeth to One Raker Tooth

14 Gauge at Tooth Edge, Back 16 Gauge at Ends, Tapering to 19 Gauge at Center, Polished and Etched

Length, Feet	5½	6	6½	7
Width at Center, Inches	5½	5¾	6	6¼
Weight Each, Lbs.	5	6	6½	7¼
Each without Handles	$5 60	6 80	7 40	7 60

No. DEX14 -14x19 Gauge—COTTONWOOD PATTERN—LANCE TOOTH. PERFORATED

Narrow Width Blade; Two Cutting Teeth to One Raker Tooth.

14 Gauge at Tooth Edge, Back 16 Gauge at Ends, Tapering to 19 Gauge at Center, Polished and Etched

Length, Feet	5½	6	6½	7
Width at Center, Inches	5½	5¾	6	6¼
Weight Each, Lbs.	5	6	6½	7¼
Each, without Handles	$5.60	6.80	7 40	7 60

No. DEX19 14x19 Gauge COTTONWOOD PATTERN—LANCE TOOTH. PERFORATED

Narrow Width Blade; Four Cutting Teeth to One Raker Tooth.

14 Gauge at Tooth Edge, Back 16 Gauge at Ends, Tapering to 19 Gauge at Center; Polished and Etched

Length, Feet	5½	6	6½	7
Width at Center, Inches	5½	5¾	6	6¼
Weight Each, Lbs.	5¼	6	6½	7¼
Each, without Handles	$5.60	6 80	7 40	7 60

Papered and Wood Stripped on Cutting Edge

Lance

Above Prices do not include Handles

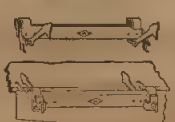
ADVERTISING AD-UNITS

The Diamond Edge hand drill has a malleable frame, steel spindle and pinion and three-jaw chuck. Taking bits from number 0 to 5/32. **Diamond Edge** quality in every respect.

"DIAMOND EDGE IS A QUALITY PLEDGE"

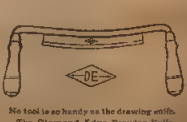
Cement Tools

The cement worker should have good tools. It is half the job to show that you are a real cement worker, and the right tools are necessary. **Diamond Edge** Cement Tools satisfy your every sense of quality, shape, style and finish.



Diamond Edge Saw Clamps

The best ratchet clamp that actually clamps. Holds the saw perfectly. Can be attached to any piece of wood anywhere. Investigate this clamp.



No tool is so handy as the drawing knife. The **Diamond Edge** Drawing Knife, like all other Diamond Edge tools, excels because of the special steel used in the cutting edge. You will find the **Diamond Edge** Drawing Knife as sharp as a razor and ready for business.

BRIDGE CUTLERY CO. POCKET KNIVES

This Brand of American-made Pocket Knives we Control for the U. S. The Blades are Manufactured from S. & C. Wardlow's Steel. It is a Line of Goods that We Offer to the Trade who Want Something Not Quite as Good as Our Diamond Edge Brand. The Knives are Well Made Throughout; are Attractively Finished and will Give Good Service. They Are the Equal of the Average Line of American Knives Offered to the Trade To-day.

BRIDGE CUTLERY COMPANY

Warranted Pocket Knives

We guarantee all knives bearing our brand to be free from flaws and imperfections. Any not proving so will be replaced; but we will NOT redeem knives that are worn out, that show abuse, or when more than one blade is broken, or that have been improperly sharpened by laying flat on a stone.

In whetting a pocket knife use a good oil-stone, holding the blade at an angle of twenty degrees, and draw toward you, from heel to point. Do not lay flat like a razor. Oil the joints occasionally, as they are liable to wear rough and the blade points protrude.

BRIDGE CUTLERY COMPANY

ST. LOUIS, MO

Fac-simile of the Circular Wrapped Around Each Bridge Pocket Knife.

"Diamond Edge is a Quality Pledge"

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made; High Grade English Steel Blades, Carefully Forged, Ground and Tempered, Free from Flaws and Imperfections. FULLY GUARANTEED

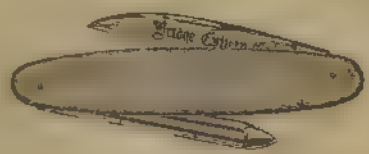
TWO BLADE PENS

Length 2¾ inches, Uncapped, One Small Pen and One File Blade, Full Crocus Polished and Etched; Brass Lining; Weight per Dozen 8 ozs.

	Per Dozen
No. 2B210P Pearl Handle	$10 80

Length 2¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched; Brass Lining; Weight per Dozen 8 ozs.

	Per Dozen
No. 2B253P Pearl Handle.....	$10 55



Length 3¼ inches; Uncapped, One Large Wharncliffe and One File Blade, Full Crocus Polished and Etched; Brass Lining; Milled. Weight per Dozen 14 ozs.

	Per Dozen
No. 2B213P—Pearl Handle.....	$20 80

Length 3 inches; German Silver Scored Bolsters, One Large Spear and One Small Pen Blade; Glazed; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

	Per Dozen
No. 2B241ST—Patent Stag Handle.....$8 80	

Length 3 inches; Polished Steel Rat Tail Bolsters; One Large Wharncliffe and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield. Weight per Dozen 12 ozs.

	Per Dozen
No. 2B242ST—Patent Stag Handle.....$8 80	

Length 3¼ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Glazed; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

	Per Dozen
No. 2B31ST Patent Stag Handle	$8 80
No. 2B31E —Ebony Handle	8 80

Length 3¼ inches; German Silver Tipped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining; German Silver Shield; Weight per Dozen 12 ozs.

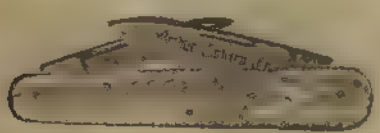
	Per Dozen
No. 2B106E —Ebony Handle	$8 80
No. 2B106ST Patent Stag Handle	8 80

Length 3 inches; German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield, Weight per Dozen 12 ozs.

	Per Dozen
No. 2B203 —Cocobolo Handle	$8 80
No. 2B203E —Ebony Handle	8 80
No. 2B203ST Patent Stag Handle	8 80

Length 3¼ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 12 ozs.

	Per Dozen
No. 2B202 Cocobolo Handle	$8 80
No. 2B202E Ebony Handle	8 80
No. 2B202ST—Patent Stag Handle	8 80



Length 3¼ inches, Uncapped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; No Shield, Weight per Dozen 16 ozs.

	Per Dozen
No. 2B88ST Patent Stag Handle	$8 25
No. 2B88W White Bone Handle	8 80
No. 2B88P —Pearl Handle	20 90

Length 3¾ inches, German Silver Tipped, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, No Shield; Weight per Dozen 16 ozs.

	Per Dozen
No. 2B183ST Patent Stag Handle	$8 80
No. 2B183W White Bone Handle	19 50
No. 2B183P —Pearl Handle	21 50

Half Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made High Grade English Steel Blades Carefully Forged, Ground and Tempered Free from Flaws and Imperfections. FULLY GUARANTEED

FOUR BLADE PENS

Congress Pattern, Length 3½ inches, Polished Steel Rat Tail Bolsters; Two Large Congress and Two Small Pen Blades; Half Crocus Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 22 ozs.

	Per Dozen
No. 4B214½ST—Patent Stag Handle	$15 00

EQUAL END JACKS

Length [illegible], German Silver Bolsters, One Large Spear and One Small Pen Blade, Brass Lining; German Silver Shield. Weight per Dozen [illegible]

	Per Dozen
No. 2B238—Cocobolo Handle	$6 50
No. 2B238E—Ebony Handle	7 50
No 2B238ST—Patent Stag Handle	8 50

Jumbo Sleeve Board Pattern; Length 3¾ inches; German Silver Bolsters; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched; Brass Lining, German Silver Shield. Weight per Dozen 3 lbs.

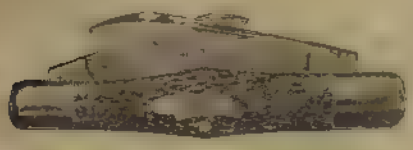
	Per Dozen
No. 3B304ST—Patent Stag Handle	$19 10

Length 3½ inches, German Silver Bolsters, One Large Spear and One Large [illegible] Lining German Silver Shield, Weight per Dozen 1¾ lbs.

	Per Dozen
No 2B190ST Patent Stag [illegible]	$13 35

Length 3½ inches [illegible] One Large Spear and [illegible] Brass Lining, German Silver Shield Weight per Dozen 1¾ lbs

	Per Dozen
No. 2B200ST—Patent Stag Handle	$13 50



Half Pen Pattern, Length [illegible] German Silver Bolsters, One [illegible] Brass Lining German Silver Shield Weight per Dozen [illegible]

	Per Dozen
No. 2B197ST—Patent Stag Handle	$11 00

[illegible] Pattern, Long Pen and [illegible] German Silver Bolsters, One Large [illegible] Pen Blade, Half Crocus Polished and [illegible] Brass Lining, German Silver Shield Weight per Dozen [illegible] lbs.

	Per Dozen
No. 2B108¾ST—Patent Stag Handle	$13 20

Half Dozen to a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

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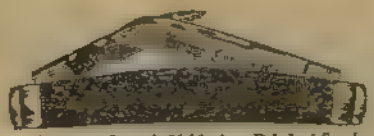
TWO BLADE PENS



Congress; Length 3¼ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, No Shield; Weight per Dozen 14 oz.

Per Dozen

No. 2B15½ST Patent Stag Handle $8 80

Length 3¼ inches; German Silver Tipped, One Large Congress and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 16 ozs.

Per Dozen

No. 2B208ST Patent Stag Handle. . .$15 00

No. 2B208P —Pearl Handle. . . . $8 40

Length 3¼ inches; German Silver Scored Bolsters, One Large Wharncliffe and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 18 ozs.

Per Dozen

No. 2B313P—Pearl Handle... $23 10

Congress; Length 3⅜ inches; German Silver Bolsters, One Large Congress and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, No Shield; Weight per Dozen 16 ozs.

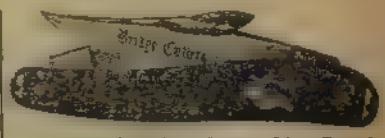
Per Dozen

No. 2B205½ST Patent Stag Handle $8 80

Length 3½ inches; German Silver Bolsters, One Large Spear and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 16 ozs.

Per Dozen

No. 2B250½P Pearl Handle $22 00



Length 3⅜ inches; German Silver Tipped, One Large Spear and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, German Silver Shield; Weight per Dozen 18 ozs.

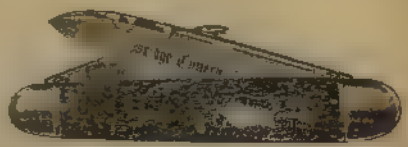
Per Dozen

No. 2B318½ST—Patent Stag Handle $11 00

Congress; Length 3⅜ inches; Polished Steel Rat Tail Bolsters, One Large Congress and One Small Pen Blade; Half Coarse Polished and Etched; Brass Lining, No Shield; Weight per Dozen 12 ozs.

Per Dozen

No. 2B18½ST Patent Stag Handle $8 80



Length 3½ inches; German Silver Scored Bolsters, One Large Spear and One Small Pen Blade; Half Coarse Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 1½ lbs.

Per Dozen

No. 2B314ST—Patent Stag Handle $9 35

THREE BLADE PENS

Lobster Pattern, Length 3½ inches; Unscaped, One Large Spear, One Small Pen and One File Blade; Full Coarse Polished and Etched; Brass Lining, No Shield, Weight per Dozen 14 ozs.

Per Dozen

No. 3B311P—Pearl Handle... $35 00

Stag Bone Pattern, Length 3¼ inches, German Silver Tipped, One Large Spear, One Small Pen and One Small Pen and File Blade; Half Coarse Polished and Etched, Brass Lining; German Silver Shield, Weight per Dozen 22 ozs.

Per Dozen

No. 3B208—Stained Bone Handle, Purple Color..... $16 50

Wharncliffe Pattern, Length 3¼ inches; German Silver Tipped, One Large Spear and Two Small Pen Blades; Half Coarse Polished and Etched, Brass Lining; German Silver Shield, Weight per Dozen 20 ozs.

Per Dozen

No. 3B309ST Patent Stag Handle. $15 00

No 3B309P —Pearl Handle $8 00

Half Dozen in a Box

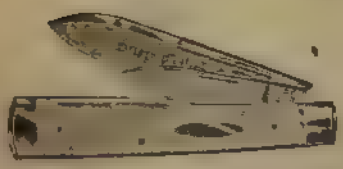
"DIAMOND EDGE IS A QUALITY PLEDGE"

POCKET KNIVES

BRIDGE CUTLERY CO.

American Made; High Grade English Steel Blades, Carefully Forged, Ground and Tempered; Free from Flaws and Imperfections FULLY GUARANTEED.

TWO BLADE JACKS

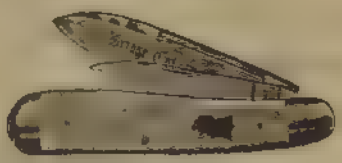


Length 3 inches German Silver Bolster and Cap, One Large Spear and One Small Pen Blade Half Crocus Polished and Etched; Brass Lining German Silver Shield Weight per Dozen 22 ozs.

	Per Dozen
No 2B310P—Pearl Handle	$22 00

Length 3 inches, Polished Steel Bolster and Cap, One Large Spear and One Small Pen Blade, Glazed and Etched, Iron Lining German Silver Shield Weight per Dozen 18 ozs.

	Per Dozen
No 2B8F —Ebony Handle	$7 15
No. 2B8ST Patent Stag Handle	7 70



Serpentine Pattern, Length 3 inches, German Silver Bolster and Cap, One Large Spear and One Small Pen Blade Half Crocus Polished and Etched Brass Lining German Silver Shield Weight per Dozen 16 ozs.

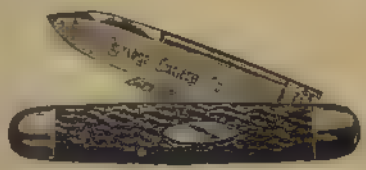
	Per Dozen
No. 2B308 —Cocobolo Handle	$8 80
No. 2B308ST—Patent Stag Handle	9 80
No. 2B308P —Pearl Handle	10.80

Serpentine Pattern Length 3½ inches German Silver Bolster and Cap, One Large Spear and One Small Pen Blade Glazed and Etched Brass Lining German Silver Shield Weight per Dozen 20 ozs.

	Per Dozen
No. 2B246 —Cocobolo Handle	$5 80
No. 2B246E —Ebony Handle	5.80
No 2B246ST Patent Stag Handle	6 80
No. 2B246P —Pearl Handle	$3 10

Stock Pattern Length 3½ inches German Silver Bolster and Cap, One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining German Silver Shield Weight per Dozen 20 ozs.

	Per Dozen
No. 2B319½E —Ebony Handle.	$8 90
No 2B319½ST Patent Stag Handle	9 90

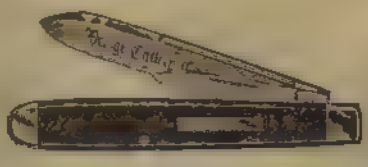


Length 3¼ inches, Polished Steel Bolster, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining; German Silver Shield; Weight per Dozen 16 ozs.

	Per Dozen
No. 2B7ST—Patent Stag Handle	$8 50

Swayback Pattern, Length 3½ inches; Polished Steel Rat Tail Bolster and Plain Cap, One Large Sheep Foot and One Small Pen Blade Half Crocus Polished and Etched Iron Lining German Silver Shield, Weight per Dozen 15 ozs.

	Per Dozen
No 2B317½ST Patent Stag Handle	$8 80



Length 3½ inches; German Silver Bolster and Cap, One Large Spear and One Small Pen Blade, Half Polished and Etched; Brass Lining German Silver shield, Weight per Dozen 15 ozs.

	Per Dozen
No. 2B306E —Ebony Handle	$8 80
No. 2B306ST—Patent Stag Handle	9 35

Length 3¼ inches German Silver Bolster and Cap, One Large Spear and One Small Pen Blade Half Polished and Etched, Brass Lining German Silver Shield, Weight per Dozen 18 ozs.

	Per Dozen
No. 2B311ST—Patent Stag Handle	$9 35

Half Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

POCKET KNIVES

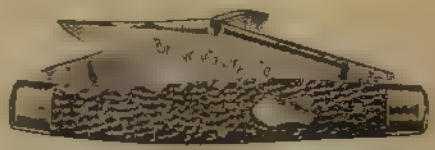
*BRIDGE CUTLERY CO.

American Made; High Grade English Steel Blades, Carefully Forged, Ground and Tempered, Free from Flaws and Imperfections. FULLY GUARANTEED

EQUAL END JACKS

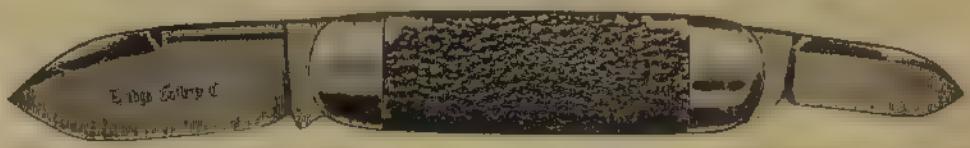
Balloon Pattern. Length 3⅞ inches. German Silver Double End Tail Bolsters, One Large Clip and One Large Spear Blade, Half Circus Polished and Etched, Brass Lining; German Silver Shield. Weight per Dozen 2½ lbs.

Per Dozen
No. 2B207ST—Patent Stag Handle $13 20



Stock Pattern. Length 3⅞ inches, German Silver Bolsters, One Large Clip and One Large Spring Blade, Half Circus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2½ lbs.

Per Dozen
No. 2B201¾ST—Patent Stag Handle $13 20



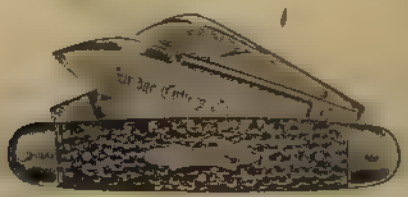
Length 4⅛ inches, Width 1 inch, Polished Steel Bolsters, One Extra Large Broad Spear and One Small Spear Blade, Half Circus Polished and Etched; Brass Lining; No Shield. Weight per Dozen 5 lbs.

Per Dozen
No. 2B206ST—Patent Stag Handle $19 80

THREE BLADE JACKS

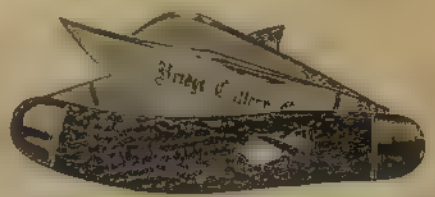
Length 3½ inches, German Silver Bolsters, One Large Spear and Two Small Pen Blades; Half Circus Polished and Etched, Brass Lining; German Silver Shield; Weight per Dozen 2¾ lbs.

Per Dozen
No. 3B204B—Ebony Handle $17 60
No. 3B204ST—Patent Stag Handle 17 60



Cattle Knife, Length 3⅞ inches, German Silver Bolsters, One Large Spear, One Large Sheep Foot and One Small Pen Blade, Half Circus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

Per Dozen
No. 3B108ST—Patent Stag Handle $15 40



Cattle Knife, Serpentine Pattern. Length 3¾ inches, German Silver Stock Bolsters, One Large Clip, One Large Sheep Foot and One Large Spring Blade, One Circus Polished and Etched, Brass Lining, Milled Center Scale; German Silver Shield. Weight per Dozen 2¾ lbs.

Per Dozen
No. 3B218¾ST—Patent Stag Handle $13 20

Half Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made High Grade English Steel Blades, Carefully Forged, Ground and Tempered; Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE JACKS

Length 3½ inches, German Silver Bolsters and Cap, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B216 —Cocobolo Handle	$8 80
No. 2B216E —Ebony Handle	8 80
No. 2B216ST—Patent Stag Handle	8 80

Length 3½ inches, German Silver Bolsters, Flat Tail Boasters, One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B234 —Cocobolo Handle	$8 80
No. 2B234E —Ebony Handle	8 80
No. 2B234ST—Patent Stag Handle	9 35

Length 3⅝ inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

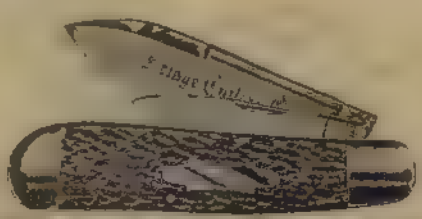
	Per Dozen
No. 2B27 —Cocobolo Handle	$8 80
No. 2B27E —Ebony Handle	8 80
No. 2B27ST —Patent Stag Handle	9 90
No. 2B27GST Genuine Stag Handle	11 20

Length 3⅝ inches, German Silver Bolsters and Cap; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining; German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B22EO —Cocobolo Handle	$8 80
No. 2B22EEO—Ebony Handle	8 80
No. 2B22SEO -Patent Stag Handle	9 35

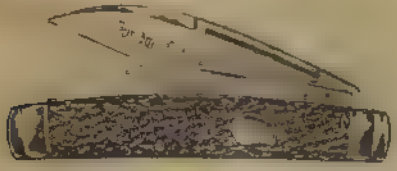
Length 3½ inches, German Silver Bolsters and Cap, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B22 —Cocobolo Handle	$8 80
No. 2B22E Ebony Handle	8 80
No. 2B22ST Patent Stag Handle	9.35



Length 3½ inches, German Silver Bolsters and Cap, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B9E Ebony Handle	$9 90
No. 2B9ST -Patent Stag Handle	11 00



Canoe Jack, Length 3½ inches, German Silver Bolsters and Cap, One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B218ST—Patent Stag Handle	$10 50

Length 3½ inches, German Silver Bolsters and Cap, One Large Clip and One Small Pen Blade, Glazed and Etched, Brass Lining; German Silver Shield, Weight per Dozen 2 lbs.

	Per Dozen
No. 2B225½ST—Patent Stag Handle	$13 65

Half Dozen in a Box

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made, High Grade English Steel Blades, Carefully Forged, Ground and Tempered; Free from Flaws and Imperfections. FULLY GUARANTEED.

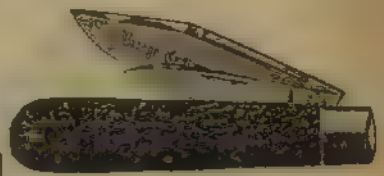
TWO BLADE JACKS

Length 3¼ inches; German Silver Bolsters and Cap. One Large Spear and One Small Pen Blade, Polished and Etched Brass Lining, German Silver Shield, Weight per Dozen 2 ozs.

	Per Dozen
No. 2B307E —Ebony Handle	**$9 35**
No. 2B307ST—Patent Stag Handle	**9 90**
No. 2B307P —Pearl Handle	**23 00**

Length 3¼ inches; German Silver Bolsters and Cap. One Large Spear and One Small Pen Blade, Half Polished and Etched, Iron Lining, German Silver Shield, Weight per Dozen 18 ozs.

	Per Dozen
No. 2B315 —Cocobolo Handle	**$8 35**
No. 2B315E —Ebony Handle	**9 35**
No. 2B315ST—Patent Stag Handle	**9 35**



Length 3¼ inches, Polished Steel Bolsters. One Large Clip and One Small Pen Blade Glazed, Iron Lining; No Shield; Weight per Dozen ¾ lbs.

	Per Dozen
No. 2B2 —Cocobolo Handle	**$4 40**
No. 2B2½ST —Patent Stag Handle	**4 40**

Length 3¼ inches, German Silver Bolsters and Cap. One Large Spear and One Small Pen Blade, Half Polished and Etched Brass Lining, German Silver Shield, Weight per Dozen 2 lbs.

	Per Dozen
No. 2B233 —Cocobolo Handle	**$8 80**
No. 2B233E —Ebony Handle	**9 80**
No. 2B233ST—Patent Stag Handle	**9 80**

Length 3¼ inches, German Silver Bolsters and Cap. One Large Spear and One Small Pen Blade, Half Polished and Etched Brass Lining; German Silver Shield, Weight per Dozen 2 lbs.

	Per Dozen
No. 2B57 —Cocobolo Handle	**$8 80**
No. 2B57E —Ebony Handle	**9 80**
No. 2B57ST—Patent Stag Handle	**9 80**

Length 3¼ inches, Polished Steel Bolsters and Cap. One Large Spear and One Small Pen Blade, Glazed and Etched, Iron Lining, German Silver Shield, Weight per Dozen 1⅞ lbs.

	Per Dozen
No. 2B331E —Ebony Handle	**$7 25**
No. 2B331ST—Patent Stag Handle	**7 50**

Length 3¼ inches, Polished Steel Bolsters and Cap. One Large Clip and One Small Pen Blade, Glazed and Etched, Iron Lining, German Silver Shield, Weight per Dozen 1⅞ lbs.

	Per Dozen
No. 2B321½ —Cocobolo Handle	**$7 25**
No. 2B321½ST—Patent Stag Handles	**7 50**

Length 3¼ inches, German Silver Bolsters and Cap. One Large Clip and One Small Pen Blade, Glazed and Etched Brass Lining, German Silver Shield, Weight per Dozen 2 lbs.

	Per Dozen
No. 2B320½ —Cocobolo Handle	**$8 80**
No. 2B320½E —Ebony Handle	**9 80**
No. 2B320½ST—Patent Stag Handle	**9 80**

Length 3¼ inches, German Silver Bolsters and Cap, One Large Clip and One Small Pen Blade, Glazed and Etched Brass Lining, German Silver Shield, Weight per Dozen 1¾ lbs.

	Per Dozen
No. 2B320½ST—Patent Stag Handle	**$10 50**

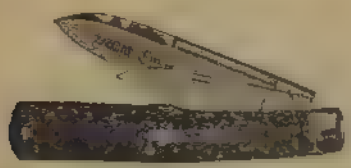
Half Dozen in a Box

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made, High Grade English Steel Blades, Carefully Forged, Ground and Tempered, Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE JACKS

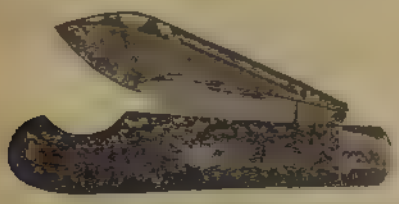


Length 3 inches; German Silver Scored Bolster; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2 oz.

		Per Dozen
No. 2B220	Cocobolo Handle	$3 50
No. 2B229E	Ebony Handle	3 80
No. 2B229ST	Patent Stag Handle	3 50

Length 3⅝ inches, Polished Steel Bolster; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

		Per Dozen
No. 2B21	—Cocobolo Handle	$3 50
No. 2B21E	Ebony Handle	3 50
No. 2B21ST	—Patent Stag Handle	3 80



Easy Opener, Length 3¾ inches, Polished Steel Blades; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B21SEO—Patent Stag Handle	$3 80

Length 3⅛ inches; German Silver Bolster; One Large Spear and One Small Pen Blade; Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¾ lbs.

	Per Dozen
No. 2B18RB—Stained Red Bone Handle, Red Color	$3 90

TWO BLADE BARLOWS

Patent Stag Handle, Length 3¼ inches, Polished Steel Bolster; Half Crocus Polished and Etched Blades; Iron Lining, Weight per Dozen 2 lbs.

	Per Dozen
No. 2B10ST—One Large Spear and One Small Pen Blade	$7 70

	Per Dozen
No. 2B10½ST—One Large Clip and One Small Pen Blade..	$7 70

	Per Dozen
No. 2B18½ST—One Large Sheep Foot and One Small Pen Blade	$7 70

	Per Dozen
No. 2B10⅝ST—One Large Spaying and One Small Pen Blade	$7 70

	Per Dozen
No. 2B19¼ST—One Large Razor and One Small Pen Blade	$7 70

Half Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

POCKET KNIVES

*BRIDGE CUTLERY CO.

American Made, High Grade English Steel Blades, Carefully Forged, Ground and Tempered, Free from Flaws and Imperfections FULLY GUARANTEED.

TWO BLADE JACKS

Length 3⅜ inches, German Silver Fancy Bolster and Cap; One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield. Weight per Dozen 2¾ lbs.

Per Dozen

No. 2B136¾ST Patent Stag Handle $13 20

Length 4⅛ inches, German Silver Bolster and Cap; One Large Clip and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 3 lbs.

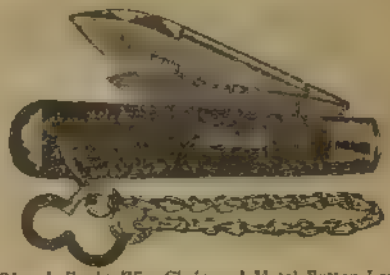
Per Dozen

No. 2B190¾ST Patent Stag Handle $13 20

Length 4⅛ inches; German Silver Bolster and Cap; One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining; German Silver Shield, Weight per Dozen 3¼ lbs.

Per Dozen

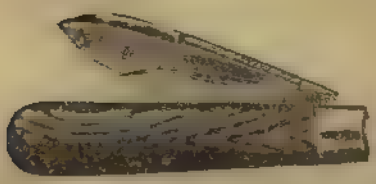
No. 2B196ST—Patent Stag Handle $13 20



With 24 inch Bright Wire Chain and Metal Button Loop; Length [illegible] inches, Polished Steel Bolster, Brass Cap, One Large Spear and One Small Pen Blade; Glazed and Etched; Iron Lining, German Silver Shield; Weight per Dozen 2 lbs.

Per Dozen

No. 2B248—Cocobolo Handle..... $8 80



Length 3⅝ inches, Polished Steel Bolster, One Large Spear and One Small Pen Blade, Glazed, Iron Lining, no Shield, Weight per Dozen 1¾ lbs.

Per Dozen

No 2B2 —Cocobolo Handle .. $4.40

No 2B2ST—Patent Stag Handle 4.40

Length 3⅝ inches, Polished Steel Bolster, One Large Sheep Foot and One Small Pen Blade, Glazed, Iron Lining, no Shield, Weight per Dozen 1¾ lbs.

Per Dozen

No. 2B2½ —Cocobolo Handle . $4 40

No. 2B2½ST—Patent Stag Handle 4 40

Half Dozen in a Box

Length 3⅝ inches, German Silver Bolster, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield, Weight per Dozen 2¼ lbs.

Per Dozen

No 2B74W—White Bone Handle $8 80

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

★FLORALITE ASSORTMENT – THREE LAMPS

Three Highly Ornamented Parlor Lamps, Globes and Shades of Attractive Styles with Decorations in Assorted Colors and Designs.
Height 22 inches; Globes 9 inches; Opal Body, tinted and Decorated to match Globe. Solid Brass Lift-Out Oil Tank with Outside Filler. Metal Parts Rich Gilt Finish. No. 3 Wicks; No. 2 Burners; 10 inch Electric Slim Chimneys.

No. 6505½H

Globe has Background of Brilliant Green blended Tints and Large White Lily Decoration with Dark Green Leaves

No. 6505½J

Globe has Ruby and Yellow Blended Back ground, decorated with Large Red and White Roses and Green Leaves

No. 6505½J

Globe has Green and Pink Blended Back ground, decorated with Large Ruby and Pink Carnations and Green Sprays

Per Assortment

★**Floralite Assortment**—Containing Three Parlor Lamps. One of each style as described above, complete with Burner, Chimneys and Wicks $11 00

Sold in Complete Assortments Only.
One Assortment in a Barrel. Shipping Weight 50 lbs.

Each

No. 224—Rich Imitation Crystal Cut Glass, Design Clear Glass, not Etched. Nickel Plated Metal Parts, Mammoth Single Wick Burner, Complete with Chimney, Burner and Wick. Diameter of Shade 10 inches, Height Over All 17 inches; Weight 15 lbs. $6 10

One in a Box

Each

No. 3837—Lamp, Height 22 inches; Shade 11½ inches; Square Cast Standard, Base and Shade all in latest open work Mission Design, fitted with Green Opalescent Art-Glass throughout. 100 Candle Power Success Centre draught round Wick Burner; Chimney and Wick, finish Dead Black . . . $9 00

One in a Box. Weight 40 lbs.

LAMPS

*TUSCAN ASSORTMENT—FOUR LAMPS

Metal Base Rich Gilt Finish.

Color—Kopp's Cardinal, Made in the Glass. Will Not Fade or Wash Out.

No. 5073—Lamp, Raised, open Lily Design. Color, Kopp's Cardinal made in the glass, will not fade or wash out. Height 18 inches. Shade [illegible] Color Cardinal No. 2 Sun Burners No. 2 Sun-proof Chimney No. 2 Wick.

No. 5074 Height, 17 Inches, Globe, 8 In., Color, Cardinal, No. 2 Burners, Chimneys and Wicks.

No. 73—Height, 18 Inches, Globe 9 Inches; Color Cardinal, No. 2 Burners, Chimneys and Wicks.

No. 55 [illegible] Inches; Globe 9 Inches; Raised Rose Design

Per Assortment

Tuscan Assortment—Containing Four Lamps, One of each Style, as described above, complete with Burners, Chimneys and Wicks **$14.50**

Sold in Complete Assortments Only.

One Assortment in a Barrel. Shipping Weight 60 lbs

SATURN LAMP ASSORTMENT

No 5061—Lamp, Color, Kopp's Cardinal made in the Glass, will not fade or wash out. Height 26 inches. 12 in. swell Shade Cardinal Glass with 5 in. Imported Ruby Bead Fringe; Complete with 100 Candle Power, Success Center Draught Burner, 10 inch Success No. 1 Belgian Chimney and Round Wick, Metal Parts, finished in Rich Gilt

No 5047 Height 22 Inches, Globe 10 In., Raised [illegible] Design

Per Assortment

***Saturn Assortment** Containing Two Lamps, as Described Above, Complete with Success Center Draft 100 Candle-power Burners, Chimneys and Wicks **$17 80**

Sold in Complete Assortments Only. One Assortment in a Barrel. Shipping Weight, 46 Pounds

No Additional Charge for Packing

LAMPS

No 6333½

★NORTHLAND ASSORTMENT—TWO LAMPS

Metal Base and Crown Rich Gilt Finish

Lamp Body and Globe Highly Decorated

No. 6333½—New Bonnet Design; Height, 26 Inches; Bonnet Shape Swell Dome 12 Inches in Diameter, Dome and Body of Lamp Decorated with Large Clusters of Pink and White Carnations with Green Stems and Light and Dark Green Blended Background; Metal Parts, Rich Gilt Finish; Complete with 100 Candle Power Success Centre Draught Burner; 10 Inch Success No. 1 Belgian Chimney and Round Wick

No. 6518C—Lamp, Height, 28 Inches; Globe 10 Inches in Diameter, Globe and Body of Lamp Decorated with Large Ruby and White Tiger Lilies on Dark Green and Yellow Blended Background; Metal Parts, Rich Gilt Finish, Complete with 100 Candle Power Success Round Wick Centre Draught Burner Chimney and Wick

Per Assortment

★**Northland Assortment**—Containing Two Lamps as Described Above, Complete with Burners Chimneys and Wicks $20 50

Sold in Complete Assortments Only

One Assortment in a Barrel Shipping Weight 80 Pound

No 6424

No 6518

★JUPITER ASSORTMENT—TWO LAMPS

Base and Crown Rich Gilt Finish

Body and Globe Highly Decorated

No. 6424—Lamp, Height, 24½ Inches; Globe 10 Inches in Diameter, Globe and Body of Lamp Decorated with Large Cluster of Red and White Wild Roses with Blue and Ruby Background, Metal Parts, Rich Gilt Finish, Complete with 100 Candle Power Success Centre Draught Burner, 10¾ Inch Success No. 1 Belgian Chimney and Success Round Wick

No. 6518—Lamp with Metal Crown, Height 25 Inches Globe 10 Inches in Diameter, Globe and Body of Lamp decorated with Pink American Beauty Roses, Yellow and Pink Blended Background; Metal Parts, Rich Gilt Finish Complete with 100 Candle Power Success Centre Draught Burner 10¾ Inch Success No. 1 Belgian Chimney, Success Round Wick

Per Assortment

★**Jupiter Assortment**—Containing Two Lamps as Described Above, Complete with Burners, Chimneys and Wicks $12 70

Sold in Complete Assortments Only

One Assortment in a Barrel Shipping Weight 50 Pounds

No 6518

LAMPS

*STARLITE ASSORTMENT—EIGHT LAMPS

METAL BASE RICH GILT FINISH

NEVER LEAK COLLARS

COMPLETE WITH No. 2 BURNERS, No. 2 SUN SLIM CHIMNEYS AND WICKS

No. 6541—BLUE

No. 6541—AMBER

CRYSTAL GLASS FOUNT FLORAL DESIGN

FLORAL DESIGN GLOBE, WITH CLEAR CRYSTAL BASE, MATCHING LAMP

No. 6541—GREEN

No. 6541—CRYSTAL

Colors, Kopp's Made in the Glass, Blue, Amber, Green and Crystal, will Not Fade or Wash Out. Height, 17½ Inches, Globe, 7½ Inches. Raised Rose Design with Gold Decorated Ruby Roses and Gold Background; Metal Font and Base, Rich Gilt Finish, Complete with No. 2 Burner and No. 2 Sun Slim Chimney.

Per Assortment

*Starlite Assortment—Containing Eight Lamps as Described Above, Two of Each Color; Complete with Burners, Chimneys and Wicks. $13.20

Sold in Complete Assortments Only

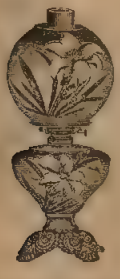
One Assortment in a Barrel Shipping Weight 60 Pounds. No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

★ SOLAR ASSORTMENT—SIX LAMPS

Six High-Grade Decorated Reception Lamps, One of Each Style Shown and Described Below. Decorations are Hand Painted Burnt In. All Complete with No. 2 Sun Burners, Chimneys and Wicks.



No. B103½A—Height, 17½ Inches. Globe 7½ Inches; Storm Blue Tint and White Easter Lilies.

No. 6444A Height, 17½ Inches. Globe, 7½ Inches. Pink and Canary Tint and Red Roses.

No. B103½B Height, 17½ Inches. Globe 7½ Inches. Light Blue Tint and Pink Roses.

No. 6443A—Height, 17½ Inches. Shade, 7 Inches. Pink and Canary Tint and Pink Roses.

No. 6444B Height, 17½ Inches. Globe, 7½ Inches. Blue and Canary Tint and Lavender Roses.

No. 6443B—Height, 17½ Inches. Shade, 7 Inches; Blue and Canary Tint, Red and Lavender Pansies.

All of Above Lamps are Furnished with No. 2 Sun Burners, Chimneys and Wicks

Per Assortment

★ **Solar Assortment.**—Containing Six High-Grade Decorated Reception Lamps. One of Each Style and Decoration Described Above, Complete with Burners, Chimneys and Wicks **$18.70**

Sold in Complete Assortments Only.

One Assortment in a Barrel. Shipping Weight, 60 Pounds

No Additional Charge for Packing

"DIAMOND EDGE IS A QUALITY PLE"

LAMPS

★ MARS ASSORTMENT -FOUR LAMPS

Four Hand Decorated Parlor Lamps, One Each of the Styles Shown and Described Below Nine-inch Globes Decorated with Floral Designs in Beautiful and Varied Colors. No. 3 Sun Burners, Chimneys and Wicks.

No. 6447A. Height, 20 Inches; Globe, 9 Inches, Pink Tint, Decorated with a Small Cluster of Pink Roses.

No. 6447C. Height 20 Inches; Globe, 9 Inches, Dark Green Tint, Decorated with a Small Cluster of Pink and Lavender Chrysanthemums.

No. 2085. Height, 19½ Inches; Globe, 9 Inches, Canary Tint, Decorated with Dark Red and Yellow Roses.

No. 3080—Height, 19¾ Inches; Globe, 9 Inches, Green Tint, Decorated with Dark Red Cactus Flowers.

All of the Above Lamps are Equipped with the No. 3 Sun Burners, Chimneys and Wicks

Per Assortment

★ Mars Assortment—Containing Four Lamps as Described Above; All Have the Same High-Grade Decorations, Complete with Burners Chimneys and Wicks $11 00

Sold in Complete Assortments Only.

One Assortment in a Barrel. Shipping Weight, 60 Pounds

Additional Charge for Packing.

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MANY SMALL ORDERS CAN BE SENT BY PARCEL POST WE HAVE A SPECIAL DEPARTMENT FOR SUCH ORDERS, SENDING PACKAGES TO THE POST OFFICE ALMOST HOURLY

LAMPS

★ RADIUM ASSORTMENT—FOUR LAMPS

Four High Grade Hand Decorated Parlor Lamps. Center Draft Burners. One of Each of the Four Styles Illustrated and Described Below. Metal Bases Finished in Rich Glit. Globes in Assorted Designs and Colors. Removable Founts, with Outside Fillers. Complete with Burners, Chimneys and Wicks.

No 8205A Height 22 Inches Globe, 9 Inches, Red and Green Tints, Decorated with Real Red Roses.

No. 8205B Height 22 Inches, Globe 9" Inches, Dark Grey Tint, Decorated with Dark Red California Cactus Flowers.

No. 8294B—Height 22 Inches, Globe 9 Inches; Rose Tint, Decorated with Dark Red Roses.

No 8294C—Height, 22 Inches, Globe, 9 Inches; Pink Tint, Decorated with Large Pink Double Poppies.

All of the Above Lamps are Equipped with Success Center Draft 100 Candle Power Burners, with 10-inch Success Chimneys and Round Wicks. These Burners Positively Produce More Light Than Any Other Burner on the Market and at the Same Time Use 50 Per Cent Less Oil

Per Assortment

★ **Radium Assortment**—Contains Four Lamps, as Described Above All Have the Same High-Grade Decorations; the Removable Founts, with Outside Fillers; the Success Center Draft 100 Candle Power Burners, with 10-inch Pure Flint Glass Chimneys and Round Wicks

Sold in Complete Assortments Only.

One Assortment in a Barrel Shipping Weight, 60 Pounds.

No Additional Charge for Packing.

THIS CATALOG WILL HELP YOU SELL SPECIAL ORDERS OF GOODS YOU DO NOT CARRY IN STOCK YOU WILL INCREASE YOUR SALES IF YOU WILL TRY TO SELL YOUR CUSTOMER FROM THIS BOOK SUCH GOODS AS YOU DO NOT CARRY REGULARLY.

LAMPS

★ EVENING STAR ASSORTMENT—SIX LAMPS

Six Highly Ornamental Parlor Lamps, Globes and Shades of Attractive Styles, with Decorations in Assorted Colors and Designs

No. 6386B—Height, 17 Inches; Globe, 8 Inches; Green Tint, Decorations, Pink Chrysanthemums

No. 6446A—Height, 17 Inches; Globe, 8 Inches, Ruby Tint, Decorations, Pink Roses

No. 6386C—Height, 17 Inches; Globe, 8 Inches; Blue Tint, Decorations, Red and Yellow Roses

No. 6445A—Height, 17 Inches; Swell Shade, 8½ Inches; Ruby Tint, Decorations, Pink Roses

No. 6446C—Height, 17 Inches; Globe, 8 Inches; Canary Tint, Decorations, Pink Chrysanthemums

No. 6445B—Height, 17 Inches; Swell Shade, 8½ Inches; Storm Blue Tint, Decorations, Dark Red Roses

Per Assortment

★ **Evening Star Assortment**—Containing Six Parlor Lamps, Highly Decorated, One of Each Style Described Above, Complete with No. 2 Burners, Chimneys and Wicks..... **$12.20**

Sold in Complete Assortments Only. One Assortment in a Barrel. Shipping Weight, 60 Pounds.

No Additional Charge for Packing.

"DIAMOND EDGE IS A QUALITY PLEDGE"

LAMPS

This Represents the Latest and Most Up-to-date Idea in Lamp Construction

The Decorations are Very Elaborate, and Harmonize Perfectly with the Beaded Fringe. It is the Most Popular Lamp on the Market. Complete with Necessary Trimmings and Equipped with the **Success Center Draft Burner** which Positively Gives More Light Than Any Other Burner, and at the same Time Uses 50 per cent Less Oil.

Each

★Aladdin—Height, 25 Inches. Dome or Swell Shade, **13 Inches** in Diameter. Dome and Body of Lamp Hand Painted with Large Decoration of Chrysanthemums. Red Flat; **Imported Bead Fringe**; Metal Parts Rich Gilt Finish. Complete with 100 Candle-Power Success Center Draft Burner, Chimney and Wick **$14.30**

One in a Barrel. Shipping Weight, 60 Lbs.

These are the Most Handsome Lamps ever produced in their Class. The Decorations are applied by Skilled Artists with the Best Oil Colors and Burned into the Glass

This is a Graceful, Dignified Lamp, Especially Designed and Well Adapted for Use in a Parlor or Reception Room.

It is an Ever-Artistic and Practical. Complete with all the Necessary Trimmings and Equipped with the Well-Known **Success Center Draft Burner**, which Positively Furnishes More Light Than Any Other Burner, at the Same Time Using 50 per cent Less Oil.

Each

★**De Luxe**—Height, 30½ Inches. Globe, **12 Inches** in Diameter; Globe and Body of Lamp Decorated with Large Cluster of Red and Yellow American Beauty Roses, with Brown Background. Metal Parts Rich Gilt Finish. Complete with 100 Candle-Power Success Center Draft Burner, Chimney and Wick . . **$12.10**

One in a Barrel. Shipping Weight, 60 Lbs.

★**Monticello**—New Bonnet Design, Height, 30 inches; Bonnet Shape Swell Dome 13 inches in Diameter. Dome and Body of Lamp Hand-Painted with Large Clusters of Pink and White Roses, Storm Green and Yellow Blended Tints, Metal Parts, Rich Gilt Finish. Complete with 100 Candle-Power Success Center Draught Burner; Round Wick; 10¾ inch Success Chimney . **$11.90**

One in a Barrel. Shipping Weight, 60 Lbs.

LAMPS

★ AMERICAN BEAUTY ASSORTMENT -TWO LAMPS

No. B207B

Metal Base Rich Gilt Finish.

Body and Globe Highly Decorated by Hand with Roses. Burnt In.

No. B207B—Height, 23 Inches; Diameter of Globe, 10 Inches; Decoration Red Jack Roses with Green Background.

No. B207C Height, 23 Inches; Diameter of Globe, 10 Inches; Decoration Pink and Red Wild Roses with Brown Background.

Both Lamps are Equipped with Success Center Draft Burners with 100 Candle Power.

Per Assortment

★ **American Beauty Assortment**—Containing Two Lamps as Described Above, Complete with Burners, Chimneys and Wicks $10 70

Sold in Complete Assortments Only.

One Assortment in a Barrel Shipping Weight, 45 Pounds

No. B207C

NO. 1 ASSORTMENT—THREE LAMPS

No. 8148A Height, 16 Inches, Globe 10 Inches; Pink Teal, with Pink and White Chrysanthemums.

No. 8149C Height, 22 Inches Globe, 10 Inches, Pink Lmt with Red and Lavender Poppies

No. 8148D Height, 16 Inches Globe 10 Inches; Pink and Green Lmt with Large Pink and Red Roses.

Per Assortment

No. 1 Assortment—Containing Three Lamps as Described Above, Complete with No. 3 Burners, Chimneys and Wicks $11 60

Sold in Complete Assortments Only.

One Assortment in a Barrel Shipping Weight, 85 Pounds

No Additional Charge for Packing

16 Size 14K Solid Gold Watch Cases

Heavy Weight—Hand Made and Hand Engraved.

Our Stock of Gold Cases is Always Complete. We Very Seldom Find it Necessary to Substitute.

Nos.			Price of Case only.
2419	Heavy Weight, Plain Polished	Hunting Case,	$ 70 00
2419O F	Heavy Weight, Plain Polished	Open Face,	66 00
2420	Extra Heavy Weight, Hand Engraved, Engine Turned	Hunting Case,	92 00
2421	Heavy Weight, Engine Turned	" "	70 50
2422	Heavy Weight, Hand Engraved	" "	80 50
2423	Heavy Weight, Hand Engraved	" "	82 65
2424	Heavy Weight, Hand Engraved	" "	60.00

Above Cases fitted with the following movements.

7 Jewel, Nickel, Elgin or Waltham	Will Cost $12 65	Extra
11 Jewel, Nickel, Illinois	" " 15 00	"
15 Jewel, Nickel, Illinois	" " 21.00	"
17 Jewel, Nickel, Illinois, Adjusted	" " 36.00	"

For other movements to fit above cases, see pages 17 to 33

If What You Buy Is Satisfactory, Tell Others; If Not, Tell us.

Ladies' Solid Gold Jewel Series Watches

Warranted 14K -The Smallest Waltham Watch Made.
Complete Watches—Exact Size of Illustrations.

Description of Jewel Series Movements, Fitting Above Cases.

Sapphire, Nickel—17 jewel in settings; compensating balance meantime screws; patent breguet hairspring, hardened and tempered in form, exposed pallets, tempered steel safety barrel, exposed winding wheels.

Ruby, Nickel—17 jewel; raised settings; compensating balance; meantime screws; patent breguet hairspring, hardened and tempered in form; exposed pallets; tempered steel safety barrel, exposed winding wheels.

Diamond, Nickel—17 Diamond and ruby jewels raised gold settings, adjusted to compensating balance meantime screws, both balance pivots running on diamonds, patent breguet hairspring, hardened and tempered in form; exposed sapphire pallets, steel escape wheel, gold train, patent micrometric regulator; tempered steel safety barrel; exposed winding wheels.

Nos.	Fitted with Movements as described above.	Sapphire 16 Jewel	Ruby 17 Jewel	Diamond 17 Jewel
2487	Plain Polished, Heavy Weight, Hunting or Open Face Case	$70 00	$76 00	$128 00
2488	Plain Polished, Heavy Weight, 1 Diamond Set, Hunting or Open Face Case	80 00	86 00	138 00
2489	Fancy Hand Engraved, Heavy Weight, 1 Diamond Set, Hunting Case	70 00	76 00	128 00
2490	Fancy Hand Engraved, Heavy Weight, Hunting Case	70.00	76 00	128 00
2491	Fancy Hand Engraved, Heavy Weight, Hunting Case	70.00	76 00	128 00
2492	Fancy Hand Engraved, Heavy Weight, Hunting Case	70.00	76 00	128 00
2493	Fancy Hand Engraved, Heavy Weight, Hunting Case	70.00	76 00	128 00
2494	Fancy Hand Engraved, Heavy Weight, Diamond Set Hunting Case	80 00	86 00	38 00
2495	Fancy Hand Engraved, Heavy Weight, Hunting Case	70 00	76 00	128 00
2496	Fancy Hand Engraved, Heavy Weight, Hunting Case	70 00	76 00	128 00
2497	Fancy Hand Engraved, Heavy Weight, Hunting Case	70.00	76 00	128.00

18 and 16 Size 14K Solid Gold Watch Cases

Hand Engraved—Hand Made—Best Makes

Nos.		Price of Case only.
2413	18 Size, Extra Heavy Weight, Hand Engraved, Hunting Case,	$120.00
2411	18 Size, Extra Heavy Weight, Hand Engraved, " "	88 50
2415	18 Size, Extra Heavy Weight, Plain Polished, " "	90 00
2415 O. F.	18 Size, Extra Heavy Weight, Plain Polished, Open Face	88.00
2416	16 Size, Heavy Weight, Hand Engraved Hunting Case,	75 00
2417	16 Size, Heavy Weight, Hand Engraved Hunting Case,	$70 00
2418	16 Size, Extra Heavy Weight, Hand Engraved, " "	98 65

Above Cases filled with the following movements:

16 Size, 7 Jewel, Nickel, Elgin or Waltham	Will Cost	$12 65	Extra
18 Size, 15 Jewel, Elgin or Waltham..	"	" 14 65	"
16 Size, 15 Jewel, Illinois	"	" 21 00	"
18 Size, 17 Jewel, Adjusted, Illinois	"	" 19 35	"

For other movements to fit above cases, see pages 17 to 33.

All of Our Guarantees Mean Exactly What They Say—If an Article Doesn't Wear WE WANT YOU TO TELL US ABOUT IT.

12 Size 14K Solid Gold Watch Cases

Heavy Weight - Hand Made and Hand Engraved.

Nos.		Price of Case only.
2433	Extra Heavy Weight, Raised Gold Ornamented ..... Hunting Case,	$ 95.00
2434	Medium Weight, Hand Engraved .. .. " "	64 50
2435	Extra Heavy Weight, Hand Engraved .. " "	93.35
2436	Extra Heavy Weight, Hand Engraved .. " "	88 50
2437	Extra Heavy Weight, Hand Engraved .. " "	93.35
2438	Extra Heavy Weight, Hand Engraved .. " "	76 00
2439	Extra Heavy Weight, Hand Engraved .. " "	80 00

Above Cases fitted with the following movements:

7 Jewel, Nickel, Elgin or Waltham.....	Will Cost	$14 00	Extra
11 Jewel, Nickel, Illinois..... ..	" "	16 50	"
15 Jewel, Nickel, Illinois..... ..	" "	20 30	"
17 Jewel, Nickel, " Adj		31 50	"

For other movements to fit above cases, see pages 17 to 35.

Remember, We Guarantee Everything to Be Exactly as Represented or Your Money Back.

Ladies' 0 Size 14K Solid Gold Watch Cases

Engraved and Diamond Set Hunting Cases—Heavy Weight.

Nos.		
2455	14K Gold 10 Ligne, 15 Jewel Adjusted Watch Bracelet	$106.65
2456	14K Gold 10-0 Size, 15 Jewel, Elgin Watch Bracelet	162.00
2457	14K Gold 5-0 Size, 15 Jewel, Elgin Watch Bracelet	96 00

Watch Bracelets are exact Size of Illustrations.

Nos.		Price of Case only.
2458	Plain Polished, Open Face, Medium Weight	Open Face, $ 28 00
2459	Plain Polished, 1 Diamond, Heavy Weight	Hunting Case, 60 00
2460	Hand Engraved, Heavy Weight	" " 48.00

Nos.		Price of Case only.
2461	Hand Engraved, Heavy Weight	Hunting Case, $ 41 00
2462	Hand Engraved, Heavy Weight	" " 40 00
2463	Hand Engraved Heavy Weight	" " 40 75
2464	Hand Engraved, Heavy Weight	" " 46 50

Above Cases fitted with the following movements

7 Jewel, Nickel, Tavannes	Will Cost	$11 00 Extra
7 Jewel, Nickel, Elgin or Waltham	" "	16 00 "
11 Jewel, Nickel, Illinois	" "	18.00 "
15 Jewel, Illinois	" "	21 32 "

For other movements to fit above cases, see pages 17 to 33.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

12 Size 14K Solid Gold Watch Cases

Hand Made and Hand Engraved.

Our Gold Cases Represent the Best Patterns and Models of the Most Reputable Gold Case Manufacturers in the United States.

Nos.			Price of Case only
2440	Heavy Weight, Plain Polished	Hunting Case,	$ 70 45
2440D.	Heavy Weight, Plain Polished	Open Face,	68 00
2441	Medium Weight, Hand Engraved	Hunting Case,	59 00
2442	Medium Weight, Hand Engraved	" "	56 00
2443	Heavy Weight, Hand Engraved	" "	78 65
2444	Medium Weight, Hand Engraved	" "	61 00
2445	Heavy Weight, Hand Engraved	" "	58 50

Above Cases fitted with the following movements

7 Jewel, Nickel, Elgin or Waltham	Wt. Cost $14 00	Extra	
11 Jewel, Nickel, Illinois	" " 16 50	"	
15 Jewel, Nickel, Illinois	" " 20 30	"	
17 Jewel, Nickel, Illinois, Adj	" " 31 50	"	

For other movements to fit above cases, see pages 17 to 23.

Remember, We Guarantee Everything to be Exactly as Represented or Your Money Back.

Our Watches are Thoroughly Inspected and Placed in Chamois Bags Before Shipment.

16 Size 14K Solid Gold Watch Cases

Newest Designs—Hand Made and Hand Engraved.

Nos		Price of Case only	
2425	Medium Weight, Hand Engraved	Hunting Case,	$60 00
2426	Medium Weight, Hand Engraved	" "	62 00
2427	Medium Weight, Hand Engraved	" "	54 50
2428	Medium Weight, Hand Engraved	" "	60 00
2429	Heavy Weight Hand Engraved	"	90 00
2430	Heavy Weight, Hand Engraved	" "	88 00
2431	Heavy Weight, Hand Engraved	" "	53 45
2432	Heavy Weight, Hand Engraved	" "	58 00

Above Cases fitted with the following movements

7 Jewel, Nickel, Elgin or Waltham	Will Cost $12 65	Extra
11 Jewel, Nickel, Illinois	" " 15 00	"
15 Jewel, Nickel, Illinois	" " 21 00	"
17 Jewel, Nickel, Illinois, Adj.	" " 36 00	"

For other movements to fit above cases, see pages 17 to 33.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

"THE HOUSE OF QUALITY"

Ladies' 6 and 0 Size Solid Gold Watch Cases

Hunting Case -Warranted 14K—Extra Heavy Weight
Hand Made and Hand Engraved.

Nos.		Hunting Case	Price of Case only
2446	Heavy Weight, Plain Polished ...		$ 40 00
2447	Heavy Weight, Hand Engraved and Fine Diamond Set	" "	84 00
2448	Heavy Weight, Hand Engraved	" "	60 00
2449	Heavy Weight, Plain Polished, Fine Diamond Set	" "	60 00
2450	Heavy Weight, Hand Engraved ,	" "	40 00
2451	Medium Weight, Raised Gold Ornamented	" "	60 00
2452	Medium Weight, Engraved, Diamond Set	" "	60 00
2454	Medium Weight, Plain, 4 Diamonds	" "	62 00
2454	Medium Weight, Engraved, Diamond Set	" "	48 00

Above Cases fitted with the following movements

6 Size, 7 Jewel Nickel, Elgin or Waltham	Will Cost $11	20	Extra
6 Size, 15 Jewel, Nickel, Elgin or Waltham	" "	16 00	"
0 Size, 7 Jewel, Elgin or Waltham.....	"	16 00	"
0 Size, 15 Jewel, Illinois..	" "	21 32	"
0 Size, 15 Jewel, Elgin or Rockford	" "	24 00	"

A Satisfied Customer is a Regular Customer. Are You One of the Regulars?

000 Size Solid Gold Complete Watches

Made by the Dueber-Hampden Watch Co. -Warranted 14K.

Exact Size of Illustrations.

Nos.		Price of Case only.
2475	Plain Polished, Medium Weight Hunting or Open Face	$ 30 00
2476	Satin Roman Finish, Heavy Weight, " "	37 50
2477	Plain Polished 5 Diamonds, Heavy Weight, Hunting Case,	70 00
2478	Fancy Hand Engraved, Heavy Weight, " "	40 00
2479	Fancy Hand Engraved, Heavy Weight, " "	36 00
2480	Fancy Hand Engraved, Heavy Weight, " "	36 00
2481	Fancy Hand Engraved, Heavy Weight, " "	40 00
2482	Fancy Hand Engraved Heavy Weight, " "	40 00
2483	Fancy Hand Engraved, Heavy Weight, " "	35 00

Nos.		Price of Case only.
2484	Fancy Hand Engraved, Medium Weight Hunting Case,	$ 38 00
2485	Fancy Hand Engraved, Medium Weight, " "	37 50
2486	Fancy Hand Engraved, Medium Weight, " "	10 00

Above Cases fitted with the following movements

7 Jewel, Nickel, "Molly Stark"	Will Cost $16 25 Extra
15 Jewel, Nickel, "Diadem"	" " 21 00 "
17 Jewel, Nickel, the "100"	" " 30 00 "

We Are Known Throughout the Country as "The House of Quality."

Ladies' 0 Size 14K Solid Gold Watch Cases

Engraved Hunting Cases—Heavy Weight.

Nos.		Price of Case only.
2465	Plain Polished, Heavy Weight .. Hunting Case,	$ 32 00
2466	Hand Engraved, Heavy Weight . " "	35 00
2467	Hand Engraved, Heavy Weight " "	35 50
2468	Hand Engraved, Heavy Weight . " "	40 00
2469	Hand Engraved, Heavy Weight " "	47 00
2470	Hand Engraved, Heavy Weight . " "	44 00
2471	Hand Engraved, Medium Weight " "	30 00
2472	Hand Engraved, Heavy Weight . " "	38 00
2473	Hand Engraved Medium Weight .. " "	32 50

Nos.		Price of Case only.
2474	Hand Engraved, Heavy Weight ..... Hunting Case,	$ 36 50
	Above Cases fitted with the following movements:	
	7 Jewel, Nickel, Tavannes .. Will Cost $11 00	Extra
	7 Jewel, Nickel, Elgin or Waltham..... " "	16 00 "
	11 Jewel, Nickel, Illinois..... " "	18.00 "
	15 Jewel, Illinois ..... " "	21.32 "

For other movements to fit above cases, see pages 17 to 33.

We are Leaders in the Watch Business. No One Guarantees to [illegible] what we do. See Pink Page H.

STANLEY BENCH PLANES

STANLEY RULE AND LEVEL CO.

Japanned Iron Steel Frame, Varnished Rosewood Handle and Knob, Polished Steel Cap, Brass Adjusting Screw, Screw and Lever Adjustment, Tempered, Ground and Polished Tool Steel Cutters.

IRON PLANES

Stanley Iron Bench Planes Combine the Highest Quality and Accuracy with a Wide Range of Adjustment, the Surfaces are so Machined as to Fit Perfectly, Making a Solid Iron Mass of the Whole, the Bearings Machined Exactly as Designed, that its Entire Bottom Rests Solidly on a Seat Formed in the Plane Body, and is Supported at Three Points, and in the Same Body which Guides the Cutter, a Support to the Frog, and Prevents any Possibility of its Wobbling. By a Turn of a Screw the Plane is adapted to Hard or Soft Wood.

BED ROCK PLAIN BOTTOM

BED ROCK CORRUGATED BOTTOM

The Corrugated Bottom Lessens Friction and Makes an Easier Running Tool than the Smooth Bottom Plane.

	SMOOTH	Each
No. 602	—7 inches Long; 1¾ inch Cut; Weight 3½ lbs.	$3 50
No. 603	—8 inches Long; 1¾ inch Cut; Weight 3¾ lbs.	3 60
No. 604	—9 inches Long, 2 inch Cut, Weight 4 lbs.	4 00
No. 604½	—10 inches Long, 2⅜ inch Cut, Weight 4½ lbs.	4 60

	SMOOTH	Each
No. 602C	—7 inches Long; 1¾ inch Cut; Weight 3½ lbs.	$3 70
No. 603C	—8 inches Long; 1¾ inch Cut; Weight 3¾ lbs.	4 00
No. 604C	—9 inches Long, 2 inch Cut, Weight 4 lbs.	4 10
No. 604½C	—10 inches Long; 2⅜ inch Cut, Weight 4½ lbs.	4 80

	JACK	Each
No. 605	—14 inches Long; 2 inch Cut, Weight 4½ lbs.	$4 80
No. 605½	—15 inches Long, 2 inch Cut, Weight 5 lbs.	5 00
	FORE	
No. 606	—18 inches Long, 2⅜ inch Cut; Weight 7½ lbs.	5 80
	JOINTER	
No. 607	—22 inches Long, 2⅜ inch Cut, Weight 7½ lbs.	6 70
No. 608	—24 inches Long, 2⅜ inch Cut, Weight 9 lbs.	8 10

	JACK	Each
No. 605C	—14 inches Long; 2 inch Cut; Weight 4½ lbs.	$4 80
No. 605½C	—15 inches Long, 2 inch Cut, Weight 5 lbs.	5 00
	FORE	
No. 606C	—18 inches Long, 2⅜ inch Cut, Weight 7½ lbs.	6 00
	JOINTER	
No. 607C	—22 inches Long, 2⅜ inch Cut, Weight 7½ lbs.	6 90
No. 608C	—24 inches Long, 2⅜ inch Cut, Weight 9 lbs.	8 10

WROUGHT STEEL

Especially Adapted for Working on Soft Woods.

The Frame Being of Wrought Steel renders the Plane Practicable of Construction; Caps are Cast Iron. Screw and Lever Adjustment; Japanned Frame and Cap. Varnished Rosewood Handle and Knob. Tool Steel, Tempered and Ground Cutter.

	SMOOTH	Each
No. 104—9 inches Long; 2¼ inch Cut; Weight 3 lbs.		$3 10

	JACK	Each
No. 185—14 inches Long; 2½ inch Cut; Weight 4 lbs.		$4 00

WOOD BOTTOM

Varnished Beechwood Bottom, Handle and Knob, Japanned Cast Iron Frame and Cap, Screw and Lever Adjustment, Tool Steel Cutters, Tempered, Ground and Polished.

	SMOOTH	Each
No. 122—8 inches Long; 1¾ inch Cut; Weight 2¼ lbs.		$1 80

	HANDLED SMOOTH	Each
No. 135—10 inches Long; 2¼ inch Cut, Weight 3 lbs.		$2 80

	JACK, FORE AND JOINTER	Each
No. 127	Jack, 15 inches Long, 2⅛ inch Cut; Weight 5¾ lbs.	$2.80
No. 129	Fore, 20 inches Long, 2¾ inch Cut, Weight 7 lbs.	2 75
No. 132	Jointer, 26 inches Long; 2¾ inch Cut; Weight 8 lbs.	3 00

For Low Angle Jack Planes, See Page 135

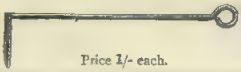
All Above, One in a Box

Smiths' Warranted Anvil Tools.

Poker.
No. 1509.

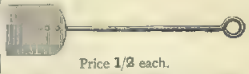
Price -/10 each.

Rake. No. 1510.



Price 1/- each.

Scoven or Shovel. No. 1511.



Price 1/2 each.

Close Mouth Tongs.
No. 1512.

Length	14	16	18	20	22	24	in.
Weight	1¾	1¾	2	2½	3	3½	lb
Price	1 6	1 6	1 8	2 -	2 1	2 6	ea

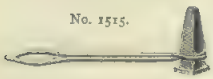
Open Mouth Tongs.
No. 1513.

Length	14	16	18	20	22	24	in
Weight	1½	1¾	2	2¼	2½	3¼	lb
Price	1 6	1 6	1 8	2 2	2 4	2 6	ea

Hollow Bit Tongs.
No. 1514.

Length	14	16	18	20	22	24	in
Weight	1½	1¾	2	2	3	3½	lb
Price	1 6	1 6	1 8	2 -	2 1	2 6	ea.

Set Hammer, Rodded.
No. 1515.



Weight	3½	4	lb.
Square	1	1¼	in.
Price	3 -	4	ea

Flattener.
No. 1516.

Size 2 in. square.
Weight 3 lb.
Price, handled, 4 3

Bolt Tongs.
No. 1517.

Length	14	16	18	20	22	24	in.
Weight	1½	1¾	2	2¾	3½	4	lb.
Price	1 6	1 6	1 8	2 2	2 4	2 9	each.

Top and Bottom Swage.
No. 1518.

Size	¼	⅝	½	⅝	¾	⅞	in.
Weight	4½	5	6½	6½	7	7½	lb per pair.
Price	4 -	4 9	5 -	5 3	5 9	6 3	" "

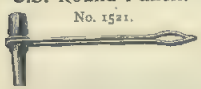
Top and Bottom Fuller.
No. 1519.

Size	¼	⅜	½	⅝	¾	⅞	in
Weight	4½	5	5¾	6	6½	7½	lb per pair.
Price	4 -	4 9	5 -	5 3	5 9	6 3	" "

C.S. Hardie for Anvil.
No. 1520.

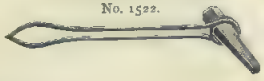
Price 2 9 each

C.S. Round Punch.
No. 1521.



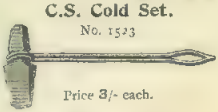
Size	¼	⅜	½	⅝	¾	in.
Weight	1¾	2	2½	2½	2¾	lb
Price	2 -	2 3	2 6	3 -	3 3	ea.

C.S. Square Punch.
No. 1522.



Size	¼	⅜	½	⅝	¾	in.
Weight	1⅞	2	2½	2¾	3	lb.
Price	2 -	2 3	2 3	2 6	3	ea

C.S. Cold Set.
No. 1523



Price 3/- each.

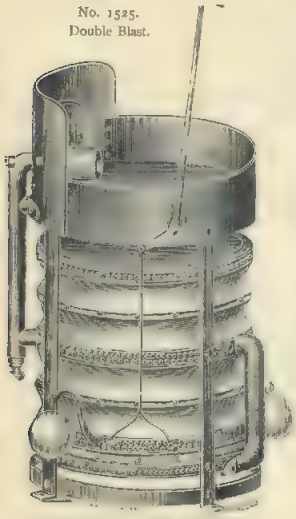
Hot Set. No. 1523½
Price 3 - each.

Universal Tongs. Will hold almost any shaped article. No. 1524.

No. . .	00	0	1	2	3	4	
Length	10	14	18	20	22	24	in.
Price .	1 9	2 3	2 9	3 -	3 3	3 9	each.

Bronze Medal, 1884.—Gold Medal, 1890.

No. 1525.
Double Blast.



Single and Double Blast Deck Forges.

These are of the best material and workmanship throughout. Suitable for all-round engineering work. No. 1525 is extra strong, and, having double Bellows, a continuous blast is obtained.

No. 1526.

Diameter.	Height.	Price.
18 in. Pans, 16 in. Bellows	30 in.	£2 : 5 : 0
20 „ „ 18 „ „	40 „	2 : 8 : 0
22 „ „ 20 „ „	30 „	2 : 12 : 6
24 „ „ 22 „ „	32 „	3 : 0 : 0
26 „ „ 24 „ „	32 „	3 : 9 : 0

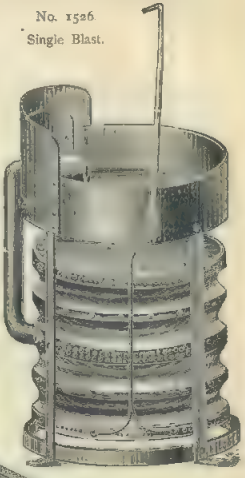
No. 1525. Double Blast.

Diameter.	Height.	Price.
18 in. Pans, 16 in. Bellows	36 in.	£4 : 2 : 6
20 „ „ 18 „ „	36 „	4 : 10 : 0
22 „ „ 20 „ „	36 „	5 : 1 : 0
24 „ „ 22 „ „	36 „	5 : 12 : 6
26 „ „ 24 „ „	36 „	6 : 7 : 6

Weights 6/6 extra for No. 1525. Forge.

(Carriage Forward.)

No. 1526
Single Blast.



Smiths' Iron Hearths

No. 1527.

These Iron Hearths are self-containing and complete in themselves, require no brickwork, and are a great advantage over the old-fashioned brick-built hearths in that they occupy much less room, and can be moved to any position required without taking down.

They are built in sections from Cast Iron and Wrought Steel Plate, and fitted with Water Tue Iron and Cistern, and Hearth Back, being suitable for Bellows or Blast.

Single Hearths.

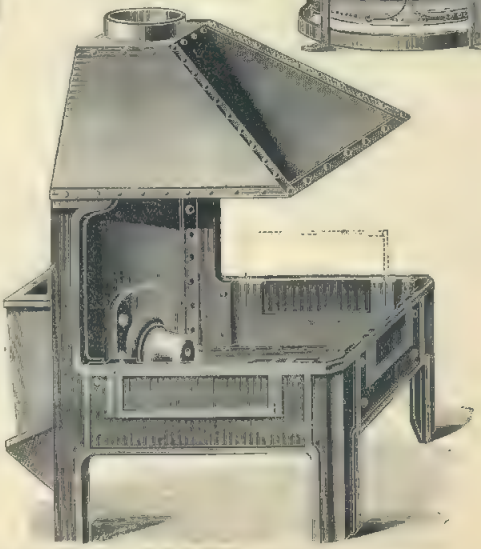
Length	3 ft.	3 ft. 6 in.	4 ft.
Width	3 „	3 „ 6 „	4 „
Height	6 „	6 ft.	6 „
Price	£8 : 13 : 0	10 : 0 : 0	11 : 7 : 0

Double Hearths

Length	3 ft.	3 ft. 6 in.	4 ft.
Width	6 „	6 ft.	6 „
Height	6 „	6 „	6 „
Price	£14 : 14 : 0	16 : 0 : 0	17 : 7 : 0

Chimney Piping, 2/3 per foot.

(Carriage Forward.)



Wrought Iron Portable Forge.

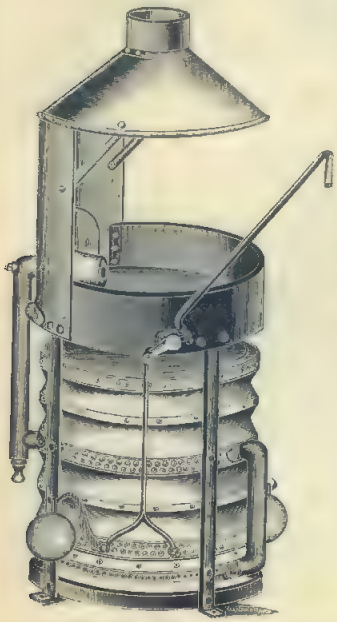
With Hood and Circular Bellows.

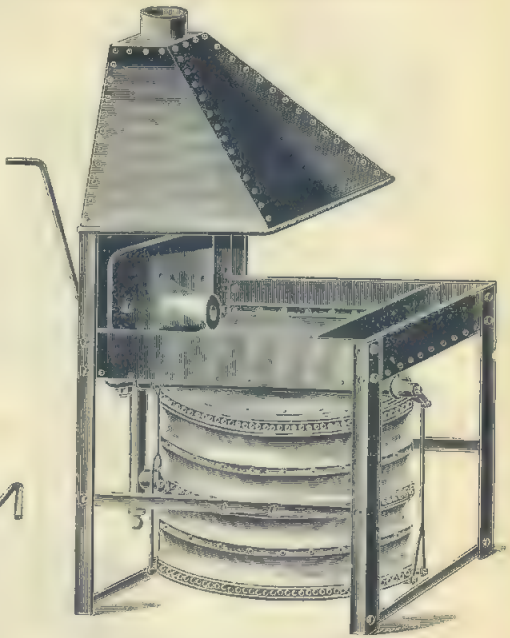
No. 1528.

This Forge is made specially to avoid the expense of building small brick Hearths, and to occupy the least possible space. It is complete in itself, and combines all the advantages of a portable Forge with a small stationary hearth.

No.	Long. ft.	Long. in.	Wide. ft.	Wide. in.	High ft.	High in.	Bellows. in.	Price
1	2	0	1	6	2	8	18	£4: 0:6
2	2	2	1	8	2	8	20	4: 9:0
3	2	4	1	10	2	8	22	4:17:6
4	2	6	2	0	2	10	24	5: 9:9
5	2	8	2	2	2	10	26	6:16:0
6	2	10	2	4	2	10	28	8: 2:6
7	3	0	2	6	3	0	30	9:14:6

If fitted with Water Tue Iron and Bosh, £1 : 9 : 6 extra.





Wrought Iron Circular Forge.

With Hood and Double Blast Bellows.

No. 1529.

This Forge is designed for use in shops where space is limited. It is now made with Hood for carrying off the fumes, and the smoke pipe can be inserted into any convenient chimney flue, or the open air.

It is very powerful, being with Double Blast Bellows.

No. B. Hearth, 20 in. diam. 5 ft. high. 18 in. Double Blast Bellows. £4 : 17 : 3

No. C. Hearth, 22 in. diam. 5 ft. high. 20 in. Double Blast Bellows. £5 : 8 : 9

No. D. Hearth, 24 in. diam. 5 ft 3 in. high. 22 in. Double Blast Bellows £6 · 2 : 0

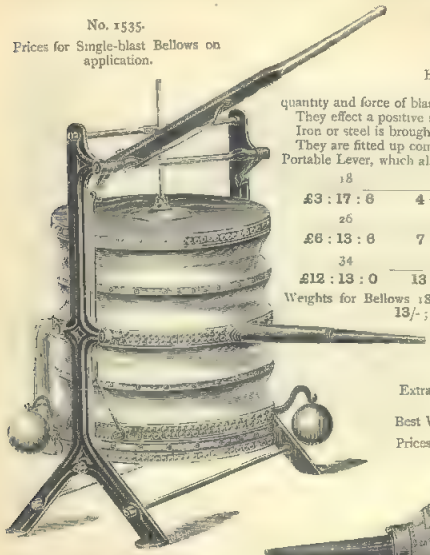
No. E. Hearth, 26 in. diam. 5 ft. 3 in. high. 18 in. Double Blast Bellows £6 : 17 : 0

Weights, 6/6 and 8/6 per set extra.

All Carriage Forward.

Orders of 20/- and upwards Carriage Paid (with few exceptions).

No. 1535.
Prices for Single-blast Bellows on application.



Patent Double-Blast Smiths' Circular Bellows.

They stand in half the space of Long-shaped Bellows.

Every stroke of the lever produces a double quantity and force of blast.

They effect a positive saving of 20 per cent. in fuel.

Iron or steel is brought to a welding state in two-thirds the usual time.

They are fitted up complete ready for work, with a Flexible Pipe and a Portable Lever, which allows them to be used in almost any position.

18	20	22	24 in.
£3 : 17 : 6	4 : 9 : 0	5 : 4 : 0	6 : 18 : 6 each.
26	28	30	32 in.
£6 : 13 : 6	7 : 15 : 0	9 : 0 : 0	10 : 0 : 0 each.
34	36	38	40 in.
£12 : 13 : 0	13 : 10 : 0	15 : 7 : 0	17 : 10 : 0 each.

Weights for Bellows 18 to 22 in., 9/-; 24 to 28 in., 10/6; 30 to 34 in., 13/-; 36 to 40 in., 15/- per set extra.

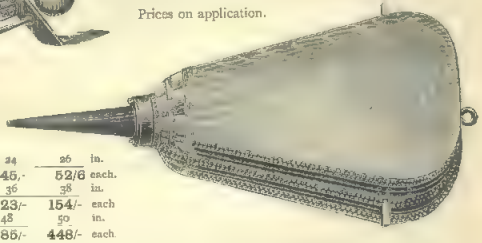
Long-Shape Smiths' Bellows.

No. 1536.

Extra Best Warranted, Extra Leathered and Double Nailed, with two Frames in Top.

Best Warranted, Extra Leathered and Double Nailed.

Prices on application.



16	18	20	22	24	26 in.
22/6	26/6	32/-	38/-	45/-	52/6 each.
28	30	32	34	36	38 in.
58/6	70/-	80/-	96/-	123/-	154/- each
40	42	44	46	48	50 in.
193/-	231/-	273/-	322/-	385/-	448/- each

We supply these Bellows for export with reversible nozzles for economy in space.

Foundry Bellows.

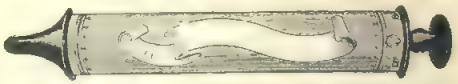
No. 1537.

Made from Extra Strong Leather, and has Patent Valve Protector.

9	10	11	12 in.
3/-	3/3	3/6	4/- each.

Cylindrical Bellows.

In Wood for Cleaning Machinery, etc. No. 1538.



No.	1	2	3
Length of Cylinder	14 in.	16 in.	18 in.
Diameter of Cylinder (inside)	2⅜ in.	2⅝ in.	2¾ in.
Price	3/9	4/9	5/- each.
No. 1538¼. With Bent Nozzle	5/-	6/-	6/6 "

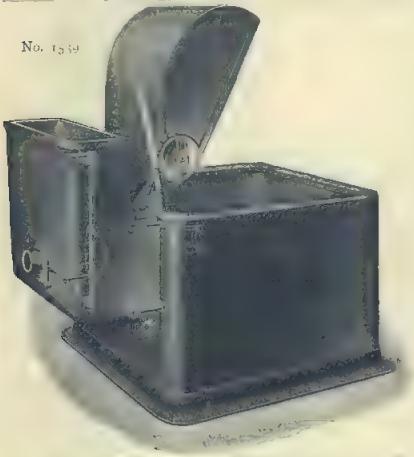
Goods on this page Carriage Forward.

Bronze Medal, 1884.—Gold Medal, 1890.

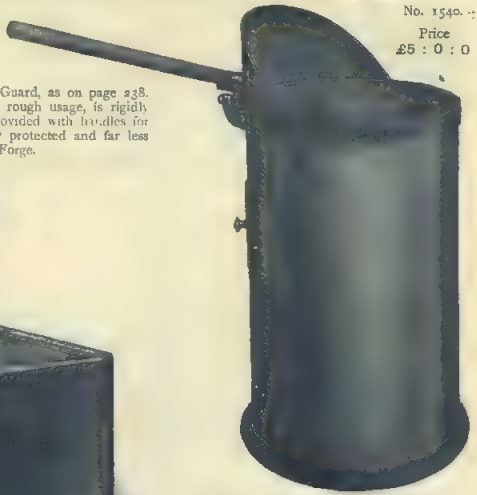
Improved Portable Forge.

This pattern is suitable for Bridge and Tank Builders, Sheet Iron Workers, and Riveters in general. In construction it is the same as No. 1545. The Standard Forge is provided with a Wind Guard, as on page 238. The body is of heavy steel plate to resist rough usage, is rigidly braced by the foundation rings, and is provided with handles for easy portability. The gear is thoroughly protected and far less liable to damage than in any other style of Forge.

No. 1539



No. 1540.
Price
£5 : 0 : 0



Adjustable "Down-draught" Forge Hoods. No. 1539.

Heavy type Steel Plate Forge with water-cooled horizontal Tuyere.

		Price
No. 1.	Size, 36 in. square	£17 : 10 : 0
No. 2.	„ 48 „	20 : 6 : 0

Treadle Rivet Forge.

No. 1541.

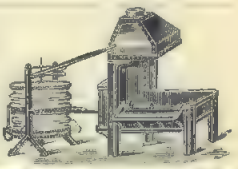
This is a similar Forge to those on page 232, but is worked by foot, leaving both hands free

No.	Pans.	Height	Bellows.	Price.
	in.	in.	in.	
1	18	32	16	£2 : 0 : 3
2	20	32	18	2 : 2 : 6
3	22	32	20	2 : 5 : 0
4	24	32	22	2 : 9 : 6

No. 1542.

This Hearth is similar to that on page 232, and is fitted with Circular Double-blast Bellows and weights complete.

No.	Width	Length	Height	Price
	ft. in.	ft. in.	ft.	
1	3 0	3 0	6	£14 : 9 : 6
2	3 6	3 6	6½	16 : 3 : 0
3	4 0	4 0	6	17 : 12 : 0



No. 1543

Width of Bellows	10 in.	12 in.	14 in.	16 in.
First quality	23/9	27/6	31/-	38/-
Second „	20/-	23/-	26/6	31/6

Double-blast Foot Bellows.

These are compact and powerful, suitable for all small brazings and solderings, for Brassfounders, Motor Engineers, Coppersmiths, Silversmiths, Electroplaters, Dentists, etc.

All Goods on this page Carriage Forward.

Tool, Machine, and Hardware Merchants and Manufacturers.

Hardening and Tempering Stove with Two Chambers.

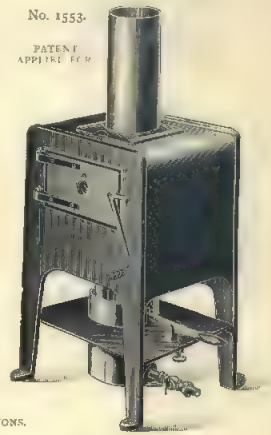
No. 1552.

This will be found invaluable for the hardening and tempering of small tools as dies, taps, drills, reamers and such like. It is easily fixed to an ordinary gas jet by means of a Flexible Tube supplied with the Stove. Work can be brought to a nice uniform hardening heat throughout in less time than it takes for some other stoves to get warm

No. 1 has a capacity of $3\frac{1}{2} \times 2 \times 2$ in., and will heat work to a red heat in five minutes, consuming not more than 18 feet of gas per hour. Price **40/-**.

No. 2 is a larger stove with a capacity of $6\frac{3}{4} \times 2 \times 2$ in. and is fitted with two burners, enabling the heat to be got up just as quickly as with the smaller size. Fitted with double doors, enabling long stock to be put through and heated in any part desired. Burns about 36 feet of gas per hour. Price **60/-**.

No. 1553.



The Gas Fired Case Hardening Furnace, illustrated, has been produced in answer to the demand for a small, but at the same time effective furnace for case hardening purposes.

It is constructed on simple lines with every part easily interchangeable, as the whole furnace can be taken apart and put together again in a few minutes by any one having no previous knowledge of it.

It is provided with a door at each end, so that long work can be put right through the furnace.

The burner is of an improved type, with natural air draught, and is provided with an easily regulated adjustment to govern the proper amount of air required to suit the particular kind of gas that is being used, and when this has been once ascertained an adjustable stop determines the position of the regulator to give the maximum amount of air.

Suitable provision has been made to entirely obviate back-firing, which is usually the weak point of a natural draught burner.

The maximum consumption of gas is 100 cubic feet per hour and any temperature up to 900° C., or 1,650° F., can be obtained with ease, while with one door open (in case of long work being done), 850° C., or 1,550° F. is obtainable.

The furnace can be brought to its maximum heat in 15 minutes

DIMENSIONS.

Size of Heating Chamber	6 in. wide, 4 in. high, 8 in. deep.
Total height, exclusive of Chimney Pipe	19 in.
Distance from back to front	11 ,,
Width	10½ ,,
Diameter of Chimney	5 ,,
Size of Connecting Pipe	⅛ ,,
Weight complete	40 lb
Price	**£5 : 0 : 0**

No. 1554

Gas Bench Forge.

This is a handy little Forge, and is designed specially for the Work Bench, where its portability makes it very valuable.

Work can be placed over the slot and heated from below, or the slot can be covered with a slab (see illustration), and the heat confined to the chamber. This enables the temperature to be rapidly raised to a very high degree.

Gas is supplied through ⅛ in. pipe. Consumption varies according to work done and quality of gas, and is too small to be considered when the work is taken into account.

Heating Chamber, 1½ in. wide, 1½ in. high, 3 in. deep. Bench Space, 6 × 6 in. Weight about 30 lb. Gas Consumption, about 20 cubic ft. per hour.

Price ... ... **£1 : 10 : 0** each.

Contractors to the Home, Indian, and Colonial Governments.

No. 1555. **Petroleum Enamelling Oven.**

This Oven is designed to be heated with our large Brazing Lamps, and is constructed with a Heat-Distributing Chamber below the oven, into which the flame is directed and from which the heat rises into the oven through perforations in the dividing wall.

This arrangement ensures an even distribution of the heat throughout the oven, and prevents the powerful flame of the lamp coming into direct contact with the work.

It will enamel two sets at a time without wheels, or one set with wheels.

It costs from 1½*d.* to 2*d.* per hour for Petroleum.

The Ventilator is made with a spout which fits 3 in. rain water piping, with lengths of which it can be easily connected, and the fumes, after enamelling, discharge outside the workshop.

The Ovens are made in sections, and packed in cases 5 ft. 6 in. by 2 ft. 9 in. by 9 in.

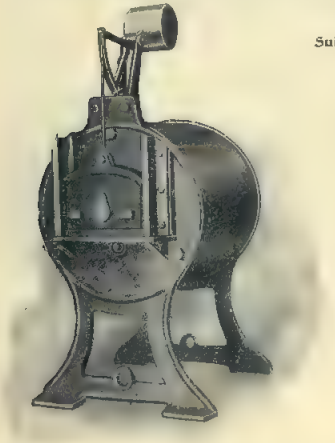
Total height from ground ..	5 ft. 3 in.
Inside Height of Oven	4 „ 0 „
„ Width	1 „ 6 „
„ Depth	2 „ 6 „

Approximate Weight without case, 1 cwt. 1 qr. 7 lb.

Price, including Thermometer, **£3 : 10 : 0**
„ fitted with Gas Burner, **3 : 17 : 6**
Thermometers, each **4 6**

When a Gas Burner is sent no perforated plate for the bottom is necessary.

Oven *Size* 2. This is in all respects similar to the one above, except that it is 1 ft. wider. It will take two sets complete with wheels and our lamps easily maintain the temperature at 400 degrees.
Approximate weight without case, 1 cwt. 3 qr. 21 lb. Packing Case 10/- extra (returnable).
Price **80/-** If fitted with Gas Burner, **90/-**



The XL Hardening Furnaces.

Suitable for Lathe Tools, Milling Cutters, etc.

No. 1556.

These Furnaces are operated with High-Pressure Gas, Ordinary Town Gas, or Producer Gas, with either Draught or Blast Burners.

They are suitable either for Annealing or Hardening.

Three different types of doors are made, either Raising and Lowering, Sliding or Hinged doors.

A temperature of 2,400° F. can be maintained.

All Furnaces are guaranteed as to temperature and uniformity of heat.

Made in three sizes:

	Inside Measurement or Working Space.			Price
No. 1.	9 in. long.	6 in. wide.	4 in. high.	**£8 : 5 : 0**
„ 2.	12 „	9 „	6 „	**11 :10 :0**
„ 3.	15 „	12 „	9 „	**14: 7 : 6**

These Furnaces can be fitted with Pyrometer if desired.

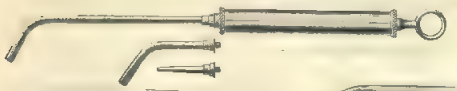
Goods on this Page Carriage Forward.

Bronze Medal, 1884.—Gold Medal, 1890.

Grease Injectors, Petrol Squirts, etc.

No. 1635. **Polished Brass Oil Syringe.**
Size of Cylinders ... ... 8 × 1 10 × 1¼ in.
Price . . .. 2 3 3/- each.

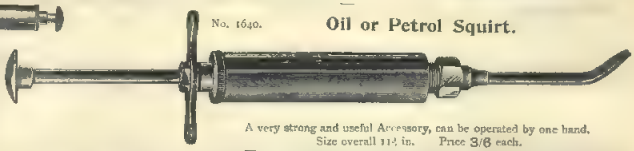
No. 1636. **Petrol Squirt.**
Nickel-Plated.
Price ... ... 1/- each.



No. 1637. **Oil Injector.**
With 3 Brass Connections.
Price . . 2/9 each.

No. 1638. **Grease Injector.** Detachable Spout
Price . 3.-

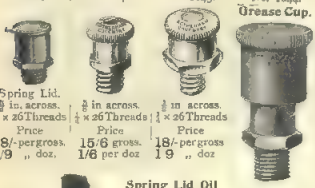
No. 1639
Collapsible Oil Squirt.
When Spout is drawn out it is fixed in end of barrel by screwing.
Price 3.



No. 1640. **Oil or Petrol Squirt.**
A very strong and useful Accessory, can be operated by one hand.
Size overall 11½ in. Price 3/6 each.

Lubricators and Grease Cups for Cycles, Motors, and Light Machinery.

No. 1641. | No. 1642. | No. 1643. | No. 1644. **Grease Cup.**



Spring Lid.
⅜ in. across. | ⅜ in across. | ⅜ in. across.
¼ × 26 Threads | ¼ × 26 Threads | ¼ × 26 Threads
Price | Price | Price
18/- per gross. | 15/6 gross. | 18/- per gross
1/9 „ doz. | 1/6 per doz | 1 9 „ doz

⅜ in. across
⅛ × 18 Threads
Price
6½ per gross
5/6 „ doz.

No. 1645. **Oil Cups.**

	No 1	No 2	No 3	No 4	No 5
Threads	⅛ × 32	¼ × 18	⅜ × 16	⅛ × 24	½ × 26
Price	2/6	3	3 8	4/3	5/3 doz.

No. 1646.

1 in. across.
½ in Gas Thread.
11/3 per doz.
1/- each.

Spring Lid Oil Cups.

No. 1647

⅜ in. across.
⅛ × 18 Threads.
9/6 per doz.
/10 each

No. 1648

⅜ in across.
¼ × 26 Threads.
3/6 per doz.
/4 each.

Oil Cups.

No. 1649.

⅜ in. across.
⅛ × 18 Threads.
6/6 per doz.
-/8 each.

No. 1650

1 in. across.
⅜ × 16 Threads.
9 6 per doz.
-/11 each.

Regulated Feed Grease Cup.
No. 1651.

1 in. across.
⅜ × 26 Threads.
12/- per doz.
1/2 each

Bronze Medal, 1884.—Gold Medal, 1890.

Direct Reading Micrometers.

Decimal System.

No. 1878.

Write for complete list of these Gauges.

Description.	Capacity.	Graduation	Gauge Standard	Price Including Pocket Case
No. 1.	$\frac{0}{100}$ in.	$\frac{1}{100}$ mils.	British	£1 12 0
,, 2.	$\frac{0}{100}$,,	$\frac{1}{200}$,,	,,	1 15 0
,, 3.	15 m/m.	$\frac{1}{100}$,,	Metric	2 12 6
,, 4.	15 ,,	$\frac{1}{200}$,,	,,	2 0 0
,, 5.	$\frac{0}{100}$ in.	$\frac{1}{200}$,,	British	2 6 6
,, 6.	$\frac{0}{100}$,,	Mils.	,,	1 15 0
,, 7.	1 ,,	,,	,,	2 10 0
,, 8.	1 ,,	$\frac{1}{2}$ mils.	,,	3 3 0
,, 9.	1 to 2 in.	Mils.	,,	2 18 6

Pocket Micrometer Decimal Wire Gauge.

Direct reading by $\frac{1}{2000}$ of an inch. Capacity $\frac{0}{10}$ in. Also excellently suited for gauging small delicate work such as Microscopical Cover-Glass, Watchmakers' materials, etc. Price 32/- complete in case.

Shows the Gauge nearly closed, reading '023, decimal fraction of an inch.

No. 1879.

Standard Cylindrical Gauges

Internal and External.

No. 1880.

Accuracy guaranteed to the $\frac{1}{10000}$ part of an inch.

$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$ inch.
15/9	16/6	18/-	18/9	19/6	20/3	21/9 p. pair.
$\frac{11}{32}$	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{15}{32}$	$\frac{1}{2}$	$\frac{17}{32}$ inch.
22/9	24/9	25/9	27/9	30/-	30/6	30/9 p. pair.
$\frac{9}{16}$	$\frac{19}{32}$	$\frac{5}{8}$	$\frac{21}{32}$	$\frac{11}{16}$	$\frac{23}{32}$	$\frac{3}{4}$ inch.
33/-	33/9	34/6	35/9	36/3	36/-	42/- p. pair.
$\frac{25}{32}$	$\frac{13}{16}$	$\frac{27}{32}$	$\frac{7}{8}$	$\frac{29}{32}$	$\frac{15}{16}$	1 inch.
43/6	45/9	46/6	49/6	51/-	54/-	55/6 p. pair.
$1\frac{1}{16}$	$1\frac{1}{8}$	$1\frac{3}{16}$	$1\frac{1}{4}$	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{16}$ inch.
59/3	63/-	67/6	72/-	77/3	82/6	86/3 p. pair.
$1\frac{1}{2}$	$1\frac{9}{16}$	$1\frac{5}{8}$	$1\frac{11}{16}$	$1\frac{3}{4}$	$1\frac{13}{16}$	2 inch.
90/-	96/-	102/-	108/-	115/-	121/6	128/- 144/- p. pair

Decimal sizes to order at short notice.

Internal and External Whitworth Screw Gauges.

External. No. 1881.

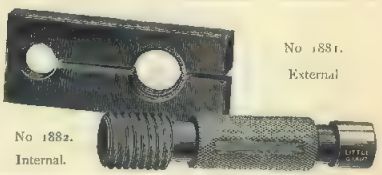
$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in.
29/-	30/-	33/-	34/6	36/-	42/-	45/-
1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{4}$ in
51/-	56/-	60/-	66/-	72/-	78/-	

Internal. No. 1882.

$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$ in
22/-	23/-	25/-	27 6	30 -	34 -	38/-
$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$	$1\frac{1}{2}$ in.	
44/-	49/-	54/-	58 -	64 -	70/-	

Prices of larger sizes on application.

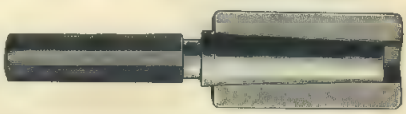
No.	1	2	3	4	5	
Price	50/-	56/-	62/6	75/-	88/6	per pair.



No 1881. External

No 1882. Internal.

No 1882½ **Gauge for Morse Tapers.**



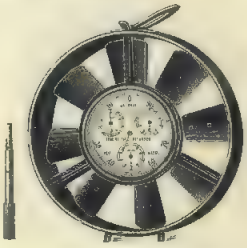
Orders of 20/- and upwards Carriage Paid (with few exceptions).

Airmeters and Anemometers.

For registering the velocity of currents of air in mines, tunnels, flues of furnaces, etc.

No. 1883.

No. 1885

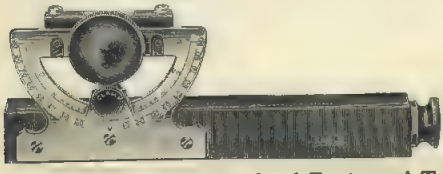


No 1884.

No 1883 1.	Portable Airmeter, 4 dials, reading to 100,000 ft., zero setting attachment	£3 . 12 : 0 each.
No 1883/2.	Portable Airmeter, 6 dials, reading to 10,000,000 ft., with zero setting attachment	3 : 12 : 0 ,,
No. 1884/1.	Biram's Anemometer, 4 in., 4 dials, reading to 100,000 ft., zero setting attachment	3 : 10 : 0 ,,
No. 1884/2.	Biram's Anemometer, 6 in., 4 dials, reading to 100,000 ft., zero setting attachment	3 : 17 : 0 ,,
	The above are fitted with zero setting movements, and are complete in cases.	
No. 1885.	Biram's Anemometer, pocket size, 2 dials, reading to 1,000 ft.	5 : 0 : 0 ,,

NOTE.

Each instrument is tested and a chart of corrections supplied.
Anemometers and airmeters can be supplied to order with metric dials instead of feet, no extra charge.
Two dial instruments stand pressure to 1,000 ft. a minute.
Four and six dial instruments stand pressure to 3,000 ft. a minute.
Airmeters and anemometers cannot be guaranteed correct when used in a temperature of over 300° Fahrenheit.



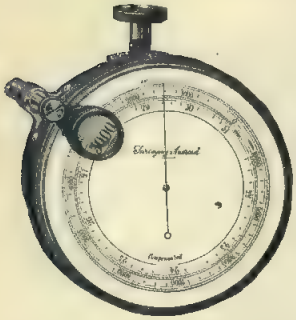
No. 1886. Abney's Level, 5 in. long, large German silver arc with draw telescope and improved fixing clamp to Vernier, complete in leather sling case **£1 . 17 : 0** each.

The Vernier reads to 10' and the eye tube is made to draw out. A book of instructions is supplied with each instrument.

A large and varied Stock of Engineers' Tools and Motor Accessories.

Special Surveying Aneroid Barometers.

No. 1887.



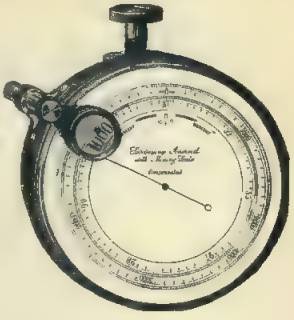
Compensated for Temperature.

These instruments have been designed and constructed especially for the purpose of readily ascertaining slight variations in gradients, levels, etc. For approximate surveys and levellings, for roads, railways, canals, water courses and mines, they are invaluable, as their readings can be easily and rapidly taken.

The following altitude scales are arranged by Vernier to read to single feet of elevation·

3 in. ... 3,000 ft
5 in., 3,000 to 6,000 „

No. 1888.



All higher altitudes scales will read by Vernier to two feet of elevation.

No. 1887/1. 3 in. stout metal case, silvered metal dial, with Vernier scale moved by rackwork motion, reading lens arranged to traverse the entire circle, altitude scale 6,000 ft., in solid leather sling case ... ... **£7 : 0 : 0** each.

No. 1887/2. 5 in. ditto ditto .. ... **£7 : 10 : 0** „

No. 1888/1. 3 in. ditto but with altitude scale arranged for mining purposes, 4,000 ft. ascent, 2,000 ft. descent ... ... **£7 : 0 : 0** „

No. 1881/2. 5 in. ditto ditto **£7 : 10 : 0** „

Extras—for either 3 or 5 in., Nos. 1887 and 1888.

B.	3,000 ft. altitude	**£0 : 7 : 0**	
C.	5,000 „ „	No extra charge	
D.	10,000 „ „	**0 : 6 : 0**	
E.	12,000 „ „	**0 · 10 : 0**	
F.	16,000 „ „	**0 : 14 : 0**	
G.	20,000 ft. altitude	**£1 : 2 : 0**	
J.	In Aluminium, 3 in , Nos. 1887 and 1888	**1 : 0 : 0**	
J.	In Aluminium, 5 in., Nos. 1887 and 1888	**1 : 10 : 0**	

The Verschoyle Patent Pocket Transit.

In Aluminium Body. Weight of Instrument 9 oz.

No. 1889.

This instrument combines the useful features of Abney level, prismatic compass, and clinometer. It has been designed by a mining engineer of practical experience in the use and possible application of the various forms of instruments intended for preliminary survey.

The distinguishing feature of the instrument is that, owing to its novel construction, only one observation is necessary to obtain both the magnetic bearing and the vertical angle of any distant point. It is also specially adapted for use in difficult positions, such as are always liable to occur in filling in the rougher details in a mining survey. For rapid topographical work, and working in constrained positions, the fact that half the labour is saved should be of interest to those who have to use this class of instrument. Another important point is that its efficiency is not determined by the length of the diameter of the compass, as is the case with the ordinary prismatic compass. With this small instrument the same length of sight is obtained as would be obtained with a 6 or 7 in. prismatic compass.

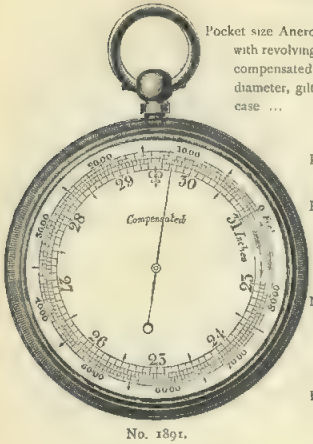
No. 1889. Verschoyle Transit for hand use, in sling leather case ... ... **£6 · 0 : 0** each.

No. 1890. Same as No. 1889, but with angle piece and collapsible metal tripod, ball and socket fitting **8 : 0 : 0** „

Contractors to the Home, Indian, and Colonial Governments.

Aneroid Barometers.

Compensated for Temperature.



No. 1891.

No. 1891

Pocket size Aneroid, silvered metal dial, with revolving altitude scale 8,000 ft., compensated for temperature, 2½ in. diameter, gilt case in outer morocco case ... ... Each **£2 : 9 : 0**

No. 1892.

Ditto, ditto, but in sling leather case ... **2 : 14 : 0**

Extra for—

3,000 ft. altitude scale **0 : 5 : 0**
12,000 „ „ „ **0 : 4 : 0**
16,000 „ „ „ **0 : 8 : 0**

No. 1893.

No. 1893. Metal case, 3 in. diam., fixed altitude scale 8,000 ft., compensated for temperature, in sling leather case ... Each. **£3 : 15 · 0**

„ 1893/2. Same as 1893, 4 in. diam. **3 19 . 0**

„ 1893/3. Same as 1893, 5 in. „ **4 · 3 · 0**

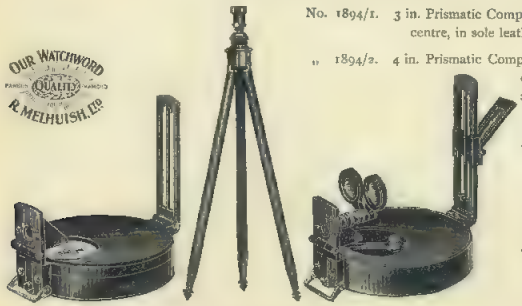
Extra for aluminium case, 3 in. diam. **0 : 6 : 0**

„ „ „ 4 in. „ **0 : 6 . 6**

„ „ „ 5 in. . **0 : 7 · 0**

No. 1891,
Extra for 3,000 ft. altitude scale **£0 : 5 : 0**
„ 12,000 ft. „ **0 : 4 : 0**
„ 16,000 ft. „ .. **0 : 8 · 0**

Prismatic Compasses.



No. 1894. Metal Tripod. No. 1894/1.

No. 1894/1. 3 in. Prismatic Compass, card dial, jewelled centre, in sole leather sling case ... ... Each. **£2 : 6 : 0**

„ 1894/2. 4 in. Prismatic Compass, card dial, jewelled centre, in sole leather sling case ... ... **2 : 13 : 0**

EXTRAS—

Azimuth shades and mirrors to either of the above, 3 in., **14/-** 4 in., **17/-**

Engine divided aluminium rings, 3 in. or 4 in., **£1 : 0 : 0**

Tripod stands with ball and socket motion, as illustrated, 3 in. or 4 in., **£1 : 12 : 0**

Bronze Medal, 1884.—Gold Medal, 1890.

POST DRILLS

BUFFALO UPRIGHT; BALL BEARING

The Ball Bearings are Placed in the Perfect Gear and Pinion at the Connection of the Spindle with the Screw and the Sliding Bearing Feed Mechanism Reducing the Friction and Saving One-Third of the Power

Buffalo Ball Bearings are Placed in the Spindle Head, Where 90% of Destructive Friction Occurs

This Cross Section of Spindle Head Shows the Perfect Ball Bearing Construction and the Simple Pin Clutch Provided for use in Connecting the Lever and the Automatic Feed

Oil Finished Cast Iron Frame, Gearing Wheels, Swing Table and Support, Polished Steel Drill Spindle, Table Post, Shafts, Axles and Chuck; Adjustable Steel Lever and Handle Crank, Hardwood Grip, Automatic Self Feed and Hand Feed with Quick Return Lever for Quickly Withdrawing Drill Bit from Work.

A Steel Pin Spring Clutch is Used in Connecting Lever with the Automatic Feed, Avoiding the Use of a Lock Nut to Take up the Thrust.

Slotted Swing Table Adjustable Up and Down. Machined Gears, Milled Teeth; All Bearings are Bored and Reamed in the Solid Metal, No Liners Being Used.

	Each
No. 106—Drills Holes up to 1½ inches to the Center of an 18 inch Circle. Takes Drills with ½ inch Straight Shank. Diameter of Spindle 1¼ inches. Size of Table 11x11 inches; Diameter of Table Post 2 inches, Run of Table 5 inches, Run of Feed 5 inches, Diameter of Feed Wheel 10 inches, Diameter of Balance Wheel 16 inches, Length of Crank 14½ inches, Balance Plate Oak, Upright 52x7½ inches; Weight 200 lbs	$22 25 20 00

One in a Crate

Takes Drills with ½ inch Straight Shank, Diameter of Spindle 1¼ inches, Diameter of Table 7 inches, Run of Table 12 inches, Run of Feed 3½ inches, Diameter of Balance Wheel 18 inches, Diameter of Feed Wheel 8½ inches, Length of Crank 8½ inches, Bolted to Plain Oak Upright Back Board.

	Each
No. 151—Drills Holes up to 1 inch to the Center of a 12 inch Circle. Diameter of Table Post 2 inches, Size of Upright Board 33x4½ inches, Weight	$15 00 8 50
No. 152—Drills Holes up to 1½ inches to the Center of a 24 inch Circle, Diameter of Table Post 2½ inches, Size of Upright Board 42x5 inches, Weight 80 lbs	16.50 10 00

One in a Crate

BUFFALO UPRIGHT; PLAIN BEARINGS

Oil Finished Cast Iron Frame, Gearing Wheels, Swing Table and Support, Polished Steel Drill Spindle, Table Post, Shafts, Axles and Chuck, Slotted Swing Table Adjustable up and down, Machined Gears with Milled Teeth; All Bearings are Bored and Reamed in the Solid Metal, No Liners Being Used; Hand Feed, Bolted to Plain Oak Upright Back Board.

	Each
No. 130—Drills Holes up to 1 inch to the Center of a 12 inch Circle. Takes Drills with ½ inch Straight Shank. Diameter of Spindle 1¼ inches. Diameter of Table Post 1½ inches; Diameter of Table 7 inches; Table 12 inches, Run of Feed 3½ inches. Diameter of Balance Wheel 18 inches. Diameter of Feed Wheel 8½ inches; Size of Back Board 33x4½ in., Wt 65 lbs	$13 00 7 50
No. 130—Drills Holes up to ¾ inch to the Center of a 12 inch Circle. Takes Drills with ½ inch Straight Shank. Diameter of Spindle 1¼ inches. Diameter of Table Post 1½ inches; Diameter of Table 7 inches; Run of Table 12 inches, Run of Feed 3½ inches. Length of Crank (Not Ajustable) 10 inches; Size of Back Board 33x4½ inches. Weight 80 lbs	$10 75 7 00

One in a Crate

HORIZONTAL DRILLS

BLACKSMITH TIRE

	Each
No. 85—Cast Iron Frame, Slide Jaw, Crank and Fan Wheel, Polished Steel Feed Screw, Cut Threads, Hardwood Handle Grip, Takes Drills With No. 1 Spur Shank, Capacity of Drills Holes to the Center of 6 inch Circle, Length of Base 28 inches, Length of Crank 8 inches, Run of Feed 3 inches; Weight Each 24 lbs	$5 10

Loose

Items Marked + Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Buffalo, N. Y.

POST DRILLS

BUFFALO UPRIGHT; BALL BEARING

The Ball Bearings are Used at the Points of Greatest Friction, viz: at the Connection of the Fast Running Drill Spindle with the Feed Screw Nut on the Slowly Rotating Feed Mechanism and Used on the Fly Wheel Reducing the Friction and Saving 10% of the Power

Buffalo Ball Bearings are Placed in the Spindle Head, where 90% of Destructive Friction Occurs

This Cross Section of Spindle Head Shows the Perfect Ball Bearing Construction and the Simple Pin Clutch Provided for Use in Connecting the Lever and the Automatic Feed

Ball Bearing

Oil Finished Cast Iron Frame, Gearing, Wheels, Swing Table and Support; Machined Gears, Milled Teeth; Polished Steel Drill and Fly Wheel Spindles, Table Post, Shafts, Axles and Chuck. Automatic Self Feed and Hand Feed; Adjustable Steel Handle Crank, Hardwood Handle Grip, Adjustable Swing Table; Quick Return Lever for Quick Withdrawing Drill from Work; A Steel Pin Spring Clutch is used in connecting Lever with the Feed, Avoiding the Breaking Necessary with the Old Style Swing Table, Adjustable up to Lower Main Bevel Gear. All Bearings are Bored and Reamed in the Solid Metal, No Liners Being Used

Drills Holes up to 14½ inches to the Center of 22 inch Circle, Takes 4--64 inch Straight Shank Drills, Diameter of Chuck 2⅛ inches Spindle 1⅜ inches; Diameter of Table 15½ inches, Run of Table 24 inches; Run of Feed 6 inches, Diameter of Balance Wheel 22 inches, Diameter of Feed Wheel 9 inches, Length of Crank 6 inches, Bolted to Plain Oak Upright 5 feet 6 inches Long, 5 inches Wide, 1½ inches Thick, Length Over All 75 inches.

	Each
+ No. 90H—For Hand Power Only; without Pulleys. Weight 175 lbs.	$48 00 55 00
+ No. 90P—For Power and Hand; with Tight and Loose Pulleys. Each 8x3 inches, Weight 283 lbs.	80 00

Drills Holes up to 13½ inches to the Center of 18 inch Circle; Takes [illegible] inch Straight Shank Drills, Supplied Only when Ordered by which Gauge or ½ or 41-64 inch Drills. Diameter of Chuck 2⅛ inches, Spindle 1¼ inches, Diameter of Table 13 inches; Run of Table 13 inches; Run of Feed 4 inches; Diameter of Balance Wheel 16 inches, Diameter of Feed Wheel 6 inches, Length of Crank 14 inches; Bolted to Plain Oak Upright 46 inches Long 5½ inches Wide.

	Each
+ No. 105H—Hand Power Only; Weight 145 lbs.	$38 00 60 75
+ No. 105P—For Power and Hand; with Tight and Loose Pulleys. Each 8x3 inches Weight 153 lbs.	42 00 67 00

Ball Bearing

Oil Finished Cast Iron Frame, Gearing, Wheels, Swing Table and Support; Machined Gears, Milled Teeth; Polished Steel Drill and Fly Wheel Spindles, Table Post, Shafts, Axles and Chuck.

Automatic Self Feed and Hand Feed; Adjustable Steel Handle Crank, Hardwood Grip, Adjustable Swing Table; All Bearings are Bored and Reamed in the Solid Metal, No Liners Being Used

WITH QUICK RETURN LEVER
For Withdrawing Bit from Work

Turn a Wheel to Change the Feed—A Quarter Turn of Small Wheel Engages or Releases the Automatic Feed; the Return is Instantaneous.

Shift a Collar to Change the Speed—Raise or Lower the Device Back of the Chuck to Change the Speed.

Fitted with **Buffalo "Sure Grip" Drill Chuck,** which is without Set Screw and Requires no Wrench; A Simple Turn with the Hand Locks or Releases the Bit, The Bit Cannot Slip, Turn in the Chuck nor get out of Alignment.

Drills Holes up to 1½ inches to the Center of 18 inch Circle, Takes Drills with ½ inch Straight Shank, Diameter of Chuck 2⅛ inches; Diameter of Spindle 1¼ inches, Size of Table 11x11 inches, Run of Table 20 inches, Run of Feed 5 inches; Diameter of Balance Wheel 16 inches; Length of Crank 14 inches, Bolted to Plain Oak Upright 58 inches Long, 7 inches Wide

	Each
No. 80H—For Hand Power Only; without Pulleys; Weight 225 lbs.	$48 00 30 00
No. 80P—For Power or Hand; with Tight and Loose Pulleys. Each 8x3 inches, Weight 243 lbs.	54 00 34 00

AUTOMATIC FAST OR SLOW SPEED

Adapted to both Light and Heavy Work in Blacksmith Shops, Carriage and Wagon Works, Machine Shops, etc.; Drills Holes up to 1 inch to the Center of a 15 inch Circle; Takes Drills with ¼ inch Straight Shank; Diameter of Chuck 1⅝ inches, Diameter of Spindle 1⅛ inches; Diameter of Table 7 inches; Run of Table 11¾ inches; Run of Feed 3 inches; Diameter of Balance Wheel 13½ inches; Length of Crank 14 inches; Bolted to Plain Oak Upright 42x6 inches, Has Slow and Fast Speed; the Slow Speed Makes ¾ of a Revolution to one Turn of Crank, the Fast Speed, 1¾ Revolutions.

	Each
No. 68H—For Hand Power Only; without Pulleys; Weight 100 lbs.	$26 40 22 00
No. 68P—For Power or Hand; with Tight and Loose Pulleys; Each 6x3½ inches, Weight 110 lbs.	31 25 26 00

Items Marked + Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory Buffalo, N. Y.

BUFFALO PORTABLE FORGES

BLACKSMITH

With Geared Hand Blowers

and Counterbalanced Crank

+ WITH CAST IRON FIRE PAN

Intended for the Heaviest Kind of Work by Blacksmiths, Boiler Makers, Wagon Shops and R. R. Shops, with Geared Blower No. 200, Having 14 in. Fan Case shown on Page 332 and Vulcan Tuyere Iron Shown on Page 331; Heavy Pressed Steel Head, Tank and Legs, Cast Iron Gear Casing, Blower and Tuyere Iron; Wrought Iron Drop Tool Rest, Hood Takes 8 in. Pipe, Painted Steel Blue.

Each

+ No. 670—With Open Hood; Pan 28x42x8 in.; Water Tank 28x9x6½ in.; Height to Top of Pan 37 in.; Height Over All 63 in.; Diameter of Fan 12 in.; Wt. 895lbs $69.00 60 00

WITH HEAVY PRESSED STEEL FIRE PAN

A Light Forge of Large Capacity for General Smithy Work; with Geared Blower No. 200, Shown on Page 332 and Having 14 inch Fan Case Vulcan Tuyere Iron, Shown on Page 331, Heavy Pressed Steel Pan, with Forged Edge, Hood and Back Angle Steel, Strongly Braced Legs; Cast Iron Gear Casing, Blower and Tuyere Iron; Wrought Iron Tool Rest; Hood Takes 8 in. Pipe; Painted Steel Blue

Each

No. 604—With Open Hood, Pan 3 8x30x4 in. Water Tank 3 8x9x6 in., Height to Top of Pan 33 in., Height Over All 58 in.; Diameter of Fan 12 in.; Weight 265 lbs $80 00 70.00

No. 604NT—Without Tank 64 00 55 00

WITH CAST IRON FIRE PAN

For General Blacksmith Work, Near and Forging, Strong, Powerful and Durable. Adapted for Heaviest Kind of Work; with Geared Blower No. 200 Having 14 inch Fan Case as Shown on Page 332 and Vulcan Tuyere Iron as shown on Page 331, **Cast Iron Fire Pan; Heavy Pressed Steel,** Hood and Water Tank; Tubular Steel Braced Legs, Cast Iron Gear Casing Blower and Tuyere Iron; Wrought Iron Drop Tool Rest, Hood Takes 8 in. Pipe; Painted Steel Blue

Each

+ No. 650—With Open Hood; Pan 28x40x3 in., Water Tank 24x8½x6½ in.; Height to Top of Pan 33 in.; Height Over All 58 in.; Diameter of Fan 12 in., Wt. 295 Lbs. $48.75 54 00

+ No. 650NT—Without Tank $43 25 50 00

WITH HEAVY CAST IRON FIRE PAN

Smaller and Lighter Than No. 650 Shown Opposite, but with the Same General Construction; a Rapid and Easy Heater, and Easily Shifted About and Used Wherever Floor Space and Capacity is Taken Into Account, Will do all but the Heaviest Work. Fitted with No. 200 Geared Blower, Having 12 inch Fan Case Similar to that Shown on Page 332, **Cast Iron Fire Pan;** Heavy Pressed Steel Hood Cast Iron Gear Cover, Blower and Tuyere Iron, Tubular Steel Braced Legs, Hood Takes 8 in. Pipe, Painted Steel Blue

Each

+ No. 651—With Open Hood, Pan 28x36x3½ in., Water Tank 19x8x6 in., Height to Top of Pan 33 in., Height Over All 54 in., Diameter of Fan 12 in., Weight 265 lbs $38 25 47 00

+ No. 651NT—Without Tank 534 75 40 00

STEEL RIVET FORGES

Especially Adapted for Use on Bridge and Structural Steel Work, Boiler Making and General Outdoor Work. Also for Tool Dressing, Light Forging, Tempering and Annealing. Heavy Pressed Steel Hood or Shield, Tubular Steel Spread Legs, Enclosed Gears Run in Oil and Weatherproof Case; Cast Iron Gear Case and Blower, Painted Steel Blue

A Deep Fire Pan and Strong Fire Blast Fit these Forges Especially for Rivet Heating. Provided with 12 inch No. 200 Geared Blower Shown on Page 332; the Gears Run in an Oil and Weatherproof Case.

For Work on Tanks, Stand Pipes, Steel Buildings, Boilers, Bridges and in Mines, these Forges are Unsurpassed.

Fitted with No. 99 Double Geared Blower, Shown on Page 332, the Gears Run in Oil and Weatherproof Case

WITH OPEN HOOD

With Heavy Pressed Steel Bowl

Height to Top of Fire Pan 36 in.; Height Over All 54 in.; Diameter of Fan 12 in.; Depth of Pan 6 in.

Nos.	625	+625A	+625B
Diam. Bowl, In	18	22	24
Weight, lbs	110	120	130
Each	$35 00	38 00	41 00
	30 25	32 80	35 50

WITH SHIELD

With Heavy Pressed Steel Bowl

Height to Top of Fire Pan 33 in.; Height Over All 45 in.; Diameter of Fan 12 in., Depth of Pan 6 in.

Nos.	+626	+626A	+626B
Diam. Bowl, In	18	22	24
Weight, lbs	110	120	130
Each	$38 00	41 00	45 00
	32 80	37 25	39 75

WITH OPEN HOOD

With Cast Iron Bowl

In Design and Construction this Forge is Rigid and Strong; It Will Stand Rough Handling and Outdoor Work.

Each

+ No. 131—With Heavy Hood, Bowl 22x3½ in.; Height to Top of Bowl 32 in.; Height Over All 54 in., Diameter of Fan 12 in.; Weight 120 lbs $28 00 27 00

Items Marked + Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory

PORTABLE FORGES

BUFFALO

LEVER ACTION

Heavy Cast Iron Bowl, Heavy Pressed Steel Hood or Shield, Four Tubular Legs, Spread at Base 27x20 inches, Malleable Iron Lever and Gear Supports, Bent Hardwood Lever, Cast Iron Blower, Fan Case and Gearing, Pan 27x21 inches; Height to Top of Pan 31 inches; Gear and Belt Wheels 16 inches, Fan 10 inches, Painted Steel Blue

CONTRACTORS	Each	MACHINISTS	Each
No. 8—With Shield, with 4 Cast Iron Lift Handles; Height Over All 44 inches; Weight Each about 140 lbs	$31 25 36 00	No 1—With Open Hood; Height Over All 54 inches, Hood Takes 8 inch Pipe, Weight about 145 lbs. $34.50	40 00

+COMPRESSED AIR

Compound Injector, which Increases the Volume and Pressure of the Air Force; Regulated by Needle Valve to the Right Pressure; Operates at Equal Economy at any Pressure, from 15 to 100 lbs., Does Away with Arm Motion, Leaving Both Hands Free for Work. Operates at a Cost of $5 00 per Year.

Heavy Rolled Steel Bowl and Base; the Injector and Working Parts are Protected by the Hood, Simple Base will Withstand the Roughest Usage, the Openings in Base Give Access to the Regulating Valve

Height 30 inches, Depth of Bowl 10 inches.

Nos	23C	23CA	23CB	23CC
Diameter, Inches	18	22	24	28
Weight, Lbs	84	92	98	116
Each	$25 00	26 00	28 00	32 00
	34 50	41 50	43 75	49 75

No. 5—Riveting

No. 4 Tool Makers

No. 6—Jewelers

Heavy Cast Iron Bowl, Heavy Pressed Steel Shield or Hood, Four Tubular Steel Braced Legs, Spread at Base 18 inches, Malleable Iron Lever and Gear Supports; Bent Hardwood Lever, Cast Blower and Fan Case, Gearing, Diameter of Bowl 18 inches, Height to Top of Bowl 33 inches; Large Gear Wheel 12 inches, Diameter of Fan 8 inches, Takes 8 inch Pipe, Painted Steel Blue

	Each
No. 5—With Shield; Height Over All 43 inches, Weight 70 lbs	$20 75 24 00
No. 4—With Open Hood; Height Over All 52¼ inches, Weight 75 lbs	23 50 27 00
+ No 6 With Closed Hood, Height Over All 52¼ inches, Weight 80 lbs	26 00 30 00

Adapted to Use of Jewelers, Tinsmiths, Locksmiths and Farmers

Will Produce a Welding Heat on Iron in 10 Minutes

BENCH

Hand Gear Wheel Action, Cast Iron Bowl, Pressed Steel Shield and Concave Bent Legs; Cast Gear Wheel Blower and Fan Case; Painted Steel Blue

	Each
No. 7—Diameter of Bowl 15 inches; Height to Top of Bowl 15 inches; Height Over All 21 inches; Diameter of Large Wheel 12 inches; Diameter of Fan 6 inches; Weight about 40 lbs	$12 00 16 00

LANCASTER FORGES

AGRICULTURAL

For General Smithy Work, Large Hood, Large and Roomy Hearth

Cast Iron Fire Pan, Heavy Pressed Steel Hood or Shield, Tubular Steel Braced Legs, Cast Iron Gearing, Blower and Fan Case; Hardwood Swedged Lever; Direct Strong Blast into Tuyere Iron is Produced by a Slow Lever Motion, the Legs are Connected by Sturdy Steel Braces, the Gearing is Practically Noiseless, the Ratchet Lever [illegible] and Never Gets Out of Order

These Forges are Substantially Built and are Practically Indestructible

Painted Maroon Red

	Each
No. 200—With Open Hood and Water Tank, Pan 24x18 inches, Height to Top of Pan 30 inches; Height Over All 56 inches, Spread of Legs 35x27 inches, Diameter of Fan 9¼ inches, Diameter of Fan Case 14½ inches, Weight 175 lbs	$30 00 35 00

RIVET

For Light Repairing Rivet Heating and Farmers' Use Particularly

	Each
No 150—With Shield; Bowl 18 inches, Height to Top of Bowl 30 inches; Height Over All 40 inches; Spread of Legs 18x18 inches, Diameter Fan 6 inches, Diameter of Fan Case 7½ in., Wt 65 lbs	$10 00 11 00
No 151 With Half Open Hood, Depth [illegible] Weight 65 lbs	$11 00 12 50

Loose

CONTRACTORS

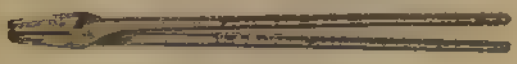
For Steel Construction Gangs, Railroad Bridge and Tank Building

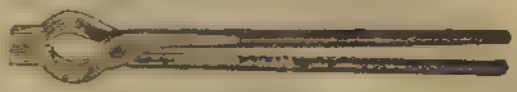
	Each
No 180—With Shield; Bowl 20½ inches; Height to Top of Bowl 30 inches; Height Over All 41 inches; Spread of Legs 20x28 inches; Diameter of Fan 7½ inches, Diameter Fan Case 8 in. Wt 80 lbs	$12 00 14 00

Items Marked + Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory

BLACKSMITHS TONGS

Solid Drop Forged, Wrought Steel Oil Finished





STRAIGHT LIP

Nos	T18	T20	T22	T24
Length, Inches	18	20	22	24
Weight per Dozen Lbs	24	30	36	42
Per Dozen	$7 50	8 00	8 50	9 00

+ GAD TONGS

Bowed Legs, Straight Ends

Nos	G18	G20	G22	G24
Length, Inches	18	21	24	24
Weight per Dozen, Lbs	24	27	36	41
Per Dozen	$8 00	9 50	10 50	11 00

Loose

BOLT TONGS

Bowed Legs, Hollow Ends For Holding Bolts and Round Iron

Nos	+ B28	+ B32	+ B38	B48	+ B58	+ B68
Length, Inches	18	20	20	22	22	24
Per Dozen	$9 00	9 50	9 50	10 50	10 50	11 00

+ PICK-UP TONGS

For Picking Up Hot Iron

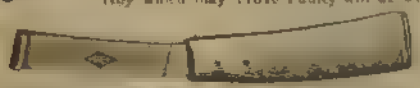
Per Dozen

No. P22—22 inches Long; Weight per Dozen 35 lbs $15 00

Loose

FARRIER KNIVES

Diamond Edge Tools are Fully Warranted and Represent the Acme of Perfection in Tool Making; Any which may Prove Faulty will be Cheerfully Replaced



+ *Diamond Edge*

Set Jaws, Iron Head, Steel Blade, Polished Handle, Made of the Highest Grade Crucible Steel, Carefully Forged, Tempered and Polished, Sharpened and Honed. Blade Riveted to Handle, Carefully Fitted and Finished

Per Dozen

No. DE1 ¾ inch Blade, 3¼ inches Long, Handle 3½ inches Long; Weight per Dozen 2¼ lbs. $6 00

Half Dozen in a Box

No. DE1S Searcher, ¾ inch Wide at Point, 3¼ inches Long, Handle 3½ inches Long; Weight per Dozen 2¼ lbs $6 00

Half Dozen in a Box

WOSTENHOLM I*XL

No. 1 Best Cast Steel Hard Slotted to Receive Shank, Blade Extra Quality Crucible Steel Blade Tempered and Polished Carefully Ground and Sharpened, Ready for Use.

	Per Dozen
No. 7834—¾ inch Blade, 3½ inches Long; Handle 4½ inches Long; Weight per Dozen 2¼ lbs.	$6 00
No. 7834L Left Hand Otherwise Same as No. 7834	7 50

Half Dozen in a Box

	Per Dozen
No. 7834S—Searcher; Blade ¾ inch Wide at Point; 3½ inches Long; Handle 4½ inches Long, Weight per Dozen 2¾ lbs	$6 00

POPE

Improved Cast Iron Two Piece Handle, Forged Crucible Steel Blade Tempered and Shaped Carefully Ground and Sharpened.

	Per Dozen
No. P—Blade 3½ inches Long, Handle 4½ inches Long; Weight per Dozen 4 lbs	$6 40

Half Dozen in a Box

	Per Dozen
No. PS Searcher, Blade ¾ inch Wide at Point, 3 inches Long, Handle 4½ inches Long; Weight per Dozen 4½ lbs	$6 40

EXTRA BLADES FOR POPE KNIVES

	Per Dozen
No. PB—3½ inches, Weight per Dozen 1 lb.	$5 00
No. PSB—Searcher; ¾ inch Point, 3 inches Long; Weight per Dozen ¾ lb.	$5 00

Three Dozen in a Box

HORSE FLEAMS

NON-XLED

No. 1 Opening Abscesses, Boils, etc., on Animals, 3 inch Polished Brass Handles, 1¼ inch Forged Crucible Steel Blades, Highly Tempered, Cast Iron Ferrule

	Per Dozen
No. 1 2 Blades, Weight per Dozen 1½ lb	$7 00
No. 2 3 Blades, Weight per Dozen 2 lbs	8 20

Half Dozen in a Box

HORSE TOOTH FILES

For Filing Horses' Teeth

Per Dozen

No. HT1—Length Over All 19 inches; 3¾x1 inch File; Double File Cut on One Side, Rasp Cut on Reverse Side, Polished Hardwood Handle, Steel Ferrule; Polished Malleable Iron Side Frame, Japanned Handle and Riveted with Burr. File is Reversible in Frame and Secured by Two Flush Head Set Screws, Weight per Dozen 14 lb. $17 00

Quarter Dozen in a Box

No. E1—Extra Files for No. HT1, Weight per Dozen 1¾ lb. 6 00

One Dozen in a Box

Items Marked + Not Carried in Stock, Can Only be Furnished by Shipping Direct from Chicago Ill.

TIRE BENDERS

ROLLER BEARING

Japanned Cast Iron Frame and Gear Wheels. Turned Steel Rollers and Axles. Wrought Iron Cranks. All the Journals are Provided with Steel Roller Bearings. The Rolls are Turned Perfectly Round and True

	Each
No. 2—Will Bend 2¼ inch Tire and Smaller to a Circle of 24 inches and Larger; Diameter of Large Gear Wheel 10⅝ inches. Length Over All 22½ inches. Width Over All 11 inches; Height Over All 12 inches. Weight Each about 80 lbs.	$13 50 15 00

One in a Case

TIRE MEASURING WHEELS

LITTLE GIANT

Used by Blacksmiths and Wagon Makers to Measure the Run of Wheels and Length of Tires to be Set. Also used by Bicycle Makers.

Drop Forged Steel Wheel Carefully Adjusted to Exactly 24 Inches in Circumference. Registers in Inches and Graduated Lengthwise of Edge in Lines Cut into the Metal. Black Enamel Hardwood Handle. Malleable Iron Shank. The Index Hand is Held in Position by Friction and will Set Instantly, and will not Get Out of Order.

	Each
No. 1. 24 inch Circumference. Wheel 8 inch Diameter. Length Over All about 13 inches. Weight per Dozen 15 lbs.	54 00

Quarter Dozen in a Box

MOLE TIRE SHRINKERS

PLAIN, WITHOUT ANTI-KINK ATTACHMENT

WITH ANTI-KINK ATTACHMENT

Simple in Construction, Strong and Durable and is Easily Operated by One Person. Cast Iron Base and Frame. Hardened Steel Jaws. The Link Connecting the Jaws is Made of Rolled Steel which Adds to the Strength of the Machine. The Pin Holes in the Link are so Placed that the Pin may be Moved into Different Holes for Different Thickness of Tires.

No. 1—Adapted to General Custom Work.

No. 2—Adapted to All but the Heaviest Work.

No. 3—Adapted to Heavy Wagon and Truck Tires.

Nos.	1	2	3
For Tires Up to, Inches	2¼	3	4
Length Lever, Inches	48	58	58
Length Over All, Inches	37	39	42
Weight Each, Lbs.	126	178	248
Each	$15 00	30 00	35 00
	13 50	25 00	30 00

Nos.	A2	A3
For Tires Up to, Inches	3	4
Length Lever, Inches	58	58
Length Over All, Inches	39	42
Weight Each, Lbs.	190	258
Each	$20 00	28 00
	15 00	26 00

ANTI-KINK ATTACHMENTS

Will Hold the Tire Down and not Allow it to Kink Up, but will Allow it to be Upset as the Pressure can be Regulated by the Foot. Each

No. AK2—For No. A2 Anti-kink Shrinker; Weight about 21 lbs. 3 50

No. AK3—For No. A3 Anti-kink Shrinker; Weight about 23 lbs. 3 50

Loose

BLOWERS

BUFFALO

Give the Strongest Blast with the Least Effort

Buffalo No. 200T has Helical Cut Gears, Bearings Bored and Reamed in the Solid Metal of the Dust and Oil-proof Gear Case, to Insure Permanent Alignment

High Speed Gears are Balanced at End Thrust on Finest Adjustable Ball Bearings. Adjustable Intermediate Gear Insures Perfect Mesh Regardless of Wear

Fan Case is Scroll Shaped Handles Air with least Resistance Shoots the Air straight out from the Blades. Crank turns either way, Forward for Strong Backward for Light Blast. This Blower with 14 inch Fan Case will give an Intense Heat, Sufficient for the very Heaviest Blacksmith Work

+No. 200T/14—**Ball Bearing:** Diameter of Fan Case 14 inches. Steel Shaft, Plain Bushings, Cast Iron Gear and Fan Cases; Four Tubular Steel, Bent Legs, Height Over All 46 inches Height of Gear Case 13 inches, Spread of Legs at Base 24 inches, 15 inch Counter-balanced Crank, 30 inch Sweep, Complete with Vulcan Tuyere and 3 inch Galvanized Blast Connecting Pipe Weight 140 lbs — Each $35 00

+No. 200NT/14—Without Tuyere Iron or Connecting Pipe Weight 85 lbs.; 14 inch Fan Case — 26 00

No. 200T—Same as No. 200NT 4 above but having 12 inch Fan Case — 23 00

No. 200NT—12 Inch Fan Without Tuyere Iron or Connecting Pipe, Weight 85 lbs; 12 inch Fan Case — 23 50

Loose

Buffalo No. 99T has Fan Spindle Driven by a Helical Spur Gear Cut and Finished by Special Machinery, Affording Smooth and Noiseless Running. The Blower is Adjustable as to Height; Four Simple Gears, Running in Oil in a Dust proof Case, Speed up the Fan Wheel to Give the Strongest Possible Blast with the Greatest Ease of Operation.

Crank Movement, Right or Left Hand with 15 inch Counter-balanced Crank 30 inch Sweep

No. 99T—Deep Cut, Cast Triple Gear, Steel Shaft, Plain Bushing, Cast Iron Gear and Fan Cases; Three Tubular Steel, Bent Legs Height Over All, Adjustable 38 to 44 inches; Diameter of Fan Case 12 inches, Spread of Legs at Base 23 inches, Complete with No. HH Tuyere Iron and 3 inch Galvanized Blast Connecting Pipe, Weight 106 lbs — Each $23.50

No. 99NT—Without Tuyere Iron or Connecting Pipe, Weight 70 lbs — 16.25

Loose

BOLT CLIPPERS

For Cutting Bolts, Chain, Rivets, Rods, Wire, Sheet Metal, etc. Used by Hardware Dealers, Manufacturers, Smiths and all Handlers of Rod and Sheet Metals. Will not Cut Hardened or Tempered Steel. Do not Pry the Jaws.

EASY

Japanned Malleable Iron Handles, Tempered Steel Detachable Jaws, Compound Lever Action, Rubber Buffers, Adjusted by Use of Steel Shim Plates Sent with Each Pair

	Each
No. 1—Length 24 inches. Cuts Bolts up to ⅜ inch. Weight 4½ lbs	$4 00
No. 2—Length 30 inches. Cuts Bolts up to ½ inch. Weight 7½ lbs	6 00

One Set of Shims and One Wrench Sent with Each Clipper

NEW EASY

Japanned Malleable Iron Handles, Tempered Steel Detachable Jaws, Compound Lever Action, Rubber Buffers, Adjusted by Set Screw on Each Side

	Each
No. 3—Length 36 inches, Cuts Bolts up to ⅝ inch. Weight 12 lbs	10 00

Loose

Items Marked + Not Carried in Stock: Can Only be Furnished by Shipping Direct from Factory, Buffalo, N. Y.

TUYERE IRONS

No Waste of Coal Increases Output of Fire

BUFFALO

For Use with Buffalo Forges and Blowers

New Invention. Buffalo Heavy Duty Vulcan Tuyere. Tuyere Valve set on Eccentric affords close regulation from smallest to large Fire and has great Capacity without breaking Fire. Large opening for Ashes. Even, thorough spread of Blast and great Heat obtained. Takes Iron up to 12 inches long in one heat.

	Each
Vulcan—Cast Iron, Size 12½x14x4½ inches. Length of Rod 24 inches; 3 inch Blast Connections; Weight 55 lbs.	$8 50

WARREN

For Use with Bellows

Japanned Cast Iron Head and Neck, Wrought Iron Rods, the Blast is Regulated by Turning the Upper Rod: When the Bottom Valve is Opened the Ashes and Cinders Fall Out.

	Per Dozen
No. W—Warren, Size of Cap 10x10 inches; Neck 6½ inches Long, Rods 22 inches Long. Size of Top Hole 1¾ inches; Blast Connection 3 inches. Weight Each 32 lbs.	$56 00

Loose

DUCK NEST SINGLE, ONE PIECE NECK

Plain Cast Iron Head and Neck, Bolted Both Sides, Opened by Unfastening Bolts

	Per Dozen
No. 20—Diameter of Head 7½ inches. Hole 3½ inches. Depth 3 inches. Length 13½ inches. Weight Each 12 lbs.	$15 00

Loose

DUCK NEST SPLIT NECK

Plain Cast Iron Head and Neck. Bolted Both Sides. Opened by Unfastening Bolts

SINGLE

	Per Dozen
No. 8—Diameter of Head 7½ inches. Hole 3½ inches. Length 13½ inches. Weight Each 9 lbs.	$18 00

Loose

BLACKSMITHS APRONS

BOSS

Made of the Best Grades of Leather and by the Best Process of Tanning Used to Produce this Class of Goods. With Nickel Plated Brass Eyelets, Strings Tied

HORSE HIDE SPLIT LEATHER

Oak Tanned, Solid Leather

Without Bibb

	Per Dozen
No. C—24x27 inches. Weight per Dozen 15 lbs.	$25 00
No. X—30x36 inches. Weight per Dozen 22½ lbs.	$8 00

With Bibb

	Per Dozen
No. S—28x36 inches. Weight per Dozen 24 lbs.	$50 00

MULE SKIN

Dark Brown Color, Two Piece, Double Seamed and Riveted to Split

Without Bibb

	Per Dozen
No. M—26x34 inches; Weight per Dozen 27 lbs.	$66 00

Loose

"Diamond Edge is a Quality Pledge"

ANVIL TOOLS

Made of Best Grade Forged Tool Steel, Oil Finish Hardened Faces or Cutting Edges

Weights Given are Only Approximate, they Vary; We Charge for Actual Weight of Tools

No. TS—TOP SWAGES
Oval Eye for Handle
Lengths 5½ to 6 inches

No. BS—BOTTOM SWAGES
For Use on Anvil Horn
Lengths 4 to 4½ inches

No. TF—TOP FULLERS
Oval Eye for Handle
Length 5 to 6½ inches

Polished Bits

No. BF—BOTTOM FULLERS
For Hardy Hole
Lengths 4 to 4½ inches

Size, Inches	¼	5-16	⅜	7-16	½	9-16	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½	1⅝	1¾	2	Per Pound All Sizes
No. TS—Top Swages; Weight, About, Lbs	2	2	2	2¼	2½	2¾	2⅞	3	3¼	3½	3¾	4	4½	4½	4½	4½	4½	$0 35
No. BS—Bottom Swages; Weight, About Lbs	1½	1⅝	1¾	2	2	2¼	2½	2½	2¾	3	3¼	3½	3½					35
No. TF—Top Fullers; Weight, About, Lbs	2	2	2	2½	2½	3½	3½	3			3½		4½					35
No. BF—Bottom Fullers, Weight About, Lbs			2	2½	2½	2½		3										35

We Charge for Actual Weight of Tools

FLATTERS

Forged Tool Steel, Oil Finish, Hardened Face; Oval Eye, for Handle

No. F—Square; Polished Face	Per Pound $0 35

Square Face, Inches	2	2½	3	3½
Length, Inches	5	5	5½	5½
Weight, About Lbs	2½	3½	5	8½

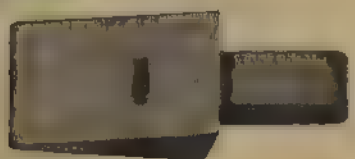
SET HAMMERS

Forged Tool Steel, Oil Finish, Hardened Face Oval Eye For Handle

No. SAH—Square, Polished Face and Head.	Per Pound $0.35

Square Face, Inches	1½	2½	1⅝	2
Length, Inches	5½	5¾	6	6
Weight, About, Lbs	2	3	3	4

We Charge for Actual Weight of Tools



No H—HARDIES

Forged Tool Steel, Oil Finish, Tempered and Polished Bit, Square Shank to Set in Anvil Hole

For Cutting Hot or Cold Iron or Steel

Size Shank, Inches	½	⅝	¾	⅞	1
Length Bit, Inches	1⅝	1⅝	1¾	1¾	2
Length, Over All, Inches	4	4	5½	5½	5½
Weight Each, Lbs	½	¾	1⅛	1⅜	1½
Per Pound, All Sizes					$0 35

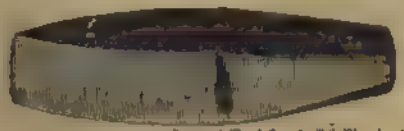
No RP—ROUND PUNCHES

Forged Tool Steel, Oil Finish, Tempered and Polished Bit, Oval Eye For Handle

Length About 8 Inches

Diameter Point, Inches	¼	5-16	⅜	½	⅝
Weight Each, Lbs	1¼	1½	1½	1½	2
Per Pound, All Sizes					$0.35

We Charge for Actual Weight of Tools



Forged Tool Steel, Oil Finish, Hardened and Polished Bit and Face; Oval Eye, for Handle

No. CC—COLD CUTTING CHISELS
For Cutting Cold Iron or Steel

Width Bit, Inches	1½	1⅝	1¾
Length, Inches	6½	6¾	7¼
Weight Each, Lbs	2	2⅛	2⅜
Per Pound	$0 35	35	35

No. HC—HOT CUTTING CHISEL
For Cutting Hot Iron or Steel

Width Bit, Inches	1½	1⅝	1¾
Length, Inches	7	7	8½
Weight Each, Lbs	1⅞	2⅛	2⅜
Per Pound	$0 35	35	35

We Charge for Actual Weight of Tools
Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

ANVILS

*BLACK PRINCE

Wrought Iron Body; Tool Steel Face

Body a Solid Forged in Two Pieces, Welded at the Waist; the Face is One Solid Piece of Special High Grade Tool Steel, Welded to the Body, Carefully Ground Smooth and Polished

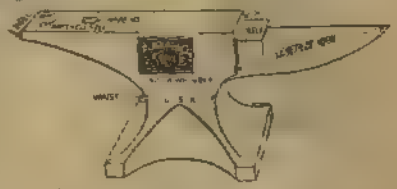
Guaranteed for One Year Against Defects of Material or Manufacture.

Features—Long Perfectly Shaped Horn and Heel, Great Area and Spread of Base, Giving Steadiness when Working at End of Horn

Special Temper of Edges to Prevent Chipping

Hardie and Pritchel Holes and Other Mechanical Details of Exact Accuracy.

We Charge for Actual Weight of Anvils



BLACKSMITH

For General Forging

Nos. Approx. Wt., Lbs.)	✣ 35	✣ 40	✣ 45	✣ 50	✣ 55	✣ 60	✣ 65	✣ 70	✣ 75	80	85
Range of Weights Lbs	36 to 37	38 to 40	41 to 45	46 to 50	51 to 55	56 to 60	61 to 65	66 to 70	71 to 75	76 to 80	81 to 87
Per Pound	$0 40	34	34	32	32	30	30	29	29	28	26

Nos. (Approx. Wt., Lbs.)	90	100	125	150	175	200	225	250	300	350	400
Range of Weights Lbs.	88 to 95	96 to 110	111 to 130	135 to 160	165 to 185	190 to 210	215 to 235	240 to 275	280 to 320	330 to 375	380 to 425
Per Pound All Sizes											$0 24

Wrapped in Burlap

NOTE.—In Ordering No. 35 Anvils (Less than 40 Lbs.) be Sure to Specify Weight Wanted

*BLACK PRINCE

HORSE SHOERS' OR FARRIERS'

We Charge for Actual Weight of Anvils

✣CLIP HORN

Nos. Approx. Wt., Lbs.)	C125	C150	C175	C200
Range of Weights Lbs.	130 to 140	141 to 150	151 to 185	186 to 210
Per Pound	$0 38	38	36	36

✣PLAIN HORN

Nos. (Approx. Wt., Lbs.)	P125	P150	P175	P200
Range of Weights Lbs.	130 to 140	141 to 160	161 to 185	186 to 210
Per Pound	$0 39	33	33	33

Wrapped in Burlap

APPROXIMATE DIMENSIONS OF BLACK PRINCE ANVILS

Nos. Approx. Wt., Lbs.	40	50	75	100	125	150	175	200	225	250	300	350	400
Face, Size, Inches	3x11	3½x11	3½x13	3¾x14½	3¾x15½	3¾x17	4x17½	4½x18	4½x19	4¾x20	5x21	5¼x22	5¾x23
Horn, Length, Inches	8½	9	9½	10	10½	11	11½	12	12½	13	13½	14	14
Hardie Hole, Size, Inches	¾	⅞	¾	⅞	15-16	1	1	1 1-16	1⅛	1⅛	1⅛	1¼	1¾

STANDARD BLACKSMITH STEEL FACED

Solid Tool Steel Tempered and Polished Face, Welded to Solid Cast Iron Japanned Base; Top and End of Horn Made of Toughened Untempered Steel

A Good General Purpose Anvil for Use of Farmers, Repair Shops and Country Blacksmiths

Nos.	2	3	4	5	6	7
Weight, Lbs.	20	30	40	50	60	70
Size Face, Inches	2¾x6	2¾x7½	3x7½	3x8¼	8¼x10⅝	3¼x11
Length Horn, Inches	4½	4¾	6	6	7	7½
Height, Inches	5⅛	5½	7	7½	8	8⅜
Hardie Hole, Inches	½	½	⅝	⅝	⅝	⅝
Each	$4 00	4 50	5 25	6 00	6 50	7 25
	7.25	8 25	9 00	10 75	11 75	13.00

Nos.	8	9	10	✣11	✣12	✣13
Weight, Lbs.	80	90	100	110	120	130
Size Face, Inches	3½x11½	3¾x12	3¾x12½	3¾x13	3¾x13	3¾x13½
Length Horn, Inches	7⅝	7⅞	7⅞	7⅞	7⅞	7⅞
Height, Inches	8¾	9	9½	10⅛	10⅛	10⅛
Hardie Hole, Inches	⅞	1	⅞	1	1	1
Each	$8 00	9 00	10 00	11 00	12 00	13 00
	14 25	16 25	18 00	19 75	21 50	23 25

*PLOW ANVILS

For Hammering Out Plow Shares Heading Rivets, etc.

May be Used by Holding in the Hand or on Setting in Bench Hole or Swage Block

Per Pound

No. PA Diameter of Face 3 inches, Length 5½ inches, Weight About 4 lbs., Solid Forged Steel Oil Finish Polished Convex Face and Shoulder, Tapering Shank..... $0.32

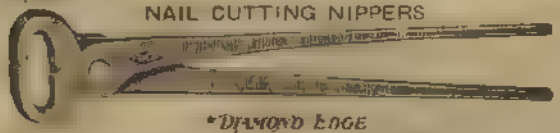
Wrapped in Burlap — Loose

Items Marked ✣ Not Carried in Stock: Can only be Furnished by Shipping Direct from Factory

BLACKSMITHS NIPPERS AND PINCERS

DIAMOND EDGE Tools are Fully Warranted and Represent the Acme of Perfection in Tool Making. Any which May Prove Faulty will be Cheerfully Replaced.

NAIL CUTTING NIPPERS

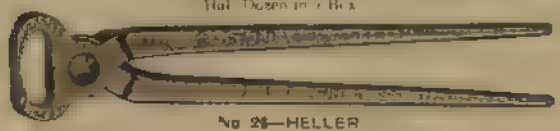


*DIAMOND EDGE

Full Polished Head, Jaws and Handles. Forged from Best Grade High Carbon Steel; Oil Tempered Jaws, Will Hold a Fine Cutting Edge. Extra Heavy Material Throughout; Heavy Steel Rivet Joint

Nos	DEN12	DEN14
Length, Inches	12	14
Weight per Dozen, Lbs.	24	27
Per Dozen	$28 80	32 50

Half Dozen in a Box

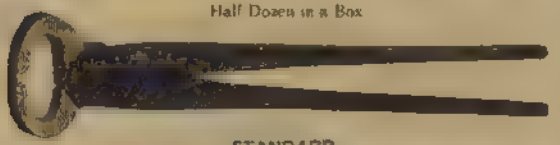


No 28—HELLER

Full Polished. Forged from Crucible Tool Steel, Oil Tempered Jaws Large Head Steel Rivet Joint.

Length, Inches	10	12	14
Weight per Dozen Lbs	2	2	30
Per Dozen	$ 00	3 00	4 00
	26 00	33 00	40.00

Half Dozen in a Box



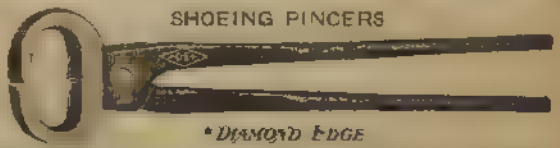
STANDARD

Polished Jaws Oil Finish Handles Forged from Tool Steel Tempered Jaws Button Head Rivet Joint

Nos	30	32
Length, Inches	12	14
Weight per Dozen Lbs	18	24
Per Dozen	$16 80	17 00

Half Dozen in a Box

SHOEING PINCERS

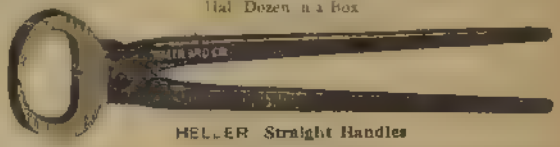


*DIAMOND EDGE

Full Polished Head, Jaws and Handles Forged from Best Grade High Carbon Steel; Oil Tempered Jaws Will Hold a Fine Cutting Edge Extra Heavy Material Throughout; Heavy Steel Rivet Joint

Nos	DEF13	DEF14
Length, Inches	13	14
Weight per Dozen, Lbs.	31	32
Per Doze	$21 50	24 00

Half Dozen in a Box

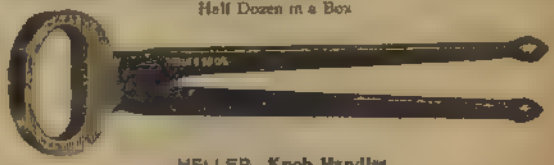


HELLER Straight Handles

Polished Head; Natural Finish Handles, Forged from Crucible Tool Steel Tempered Jaws Beveled Cutting Edges Button Head Rivet Joint

	Per Dozen
No. 21 -Length 12 inches Weight per Doz 23 lbs	$24 00 25 00

Half Dozen in a Box



HELLER, Knob Handles

Polished Head Natural Finish Handles Forged from Crucible Tool Steel Tempered jaws Beveled Cutting Edges Button Head Rivet Joint.

	Per Dozen
No 20—Length 14 inches Weight per Dozen 33 lbs	$30 00 24 00

Quarter Dozen in a Box

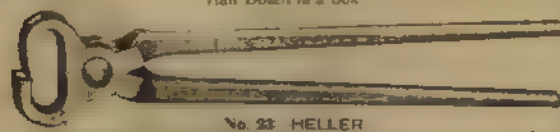
HOOF PARING NIPPERS

*DIAMOND EDGE

Full Polished Head and Handles Drop Forged from High Carbon Tool Steel Jaws are Tempered Throughout and Will Hold a Fine Cutting Edge Extra Heavy Material Throughout

Nos	DEP12	DEP14
Length, Inches	12	14
Weight per Dozen Lbs	24	27
Per Dozen	$30 00	34 75

Half Dozen in a Box



No. 23 HELLER

Full Polished, Forged from Crucible Tool Steel Tempered Jaws Will Hold a Fine Cutting Edge Large Button Head Rivet Joint

Length, Inches	12	14
Weight per Dozen Lbs	22	34
Per Dozen	$30 00	40 00
	33 00	37 00

Half Dozen in a Box

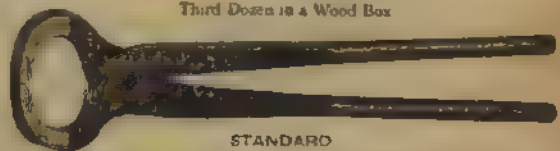
BLACKSMITHS PINCERS

*DIAMOND EDGE

Highly Polished Chamfered Jaws Natural Finish Handles Drop Forged from the Best Grade Tool Steel Jaws are Tempered Throughout and Will Hold a Fine Cutting Edge Large Button Head Rivet Joint

Nos	DE10	DE12	DE14
Length, Inches	10	12	14
Weight per Dozen, Lbs	27	30	36
Per Dozen	$12 00	14 00	16 75

Third Dozen in a Wood Box



STANDARD

Polished Jaws, Natural Finish Handles Drop Forged from Tool Steel, Tempered Jaws, Beveled Cutting Edges; Button Head Rivet Joint

Nos	V10	V12	V14
Length, Inches	10	12	14
Weight per Dozen Lbs.	17	18	25
Per Dozen	$12 50	14 00	15 50

Half Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

BLACKSMITHS BELLOWS

STANDARD BLACKSMITHS, FIVE LEAF, SPLIT LEATHER

Kiln Dried Hardwood Outside Boards Cross Battened Painted Red, Japanned Sheet Steel Cap and Funnel, Cowhide Split Leather Sides or Folds Trimmed with ⅝ inch Bent Wood Strips Secured with Coated Nails, Steel Side Pivots and Rear Hook Leather Covered and Cleated Nose. A Good Low Priced Bellows.

Nos.	B32	B34	B36	B38	B40	B32	B34	B36	B38	B40	B42	B44
Width, Inches	22	24	26	28	30	32	34	36	38	40	42	44
Length, Inches	42	46	49	52	55	58	61	64	67	70	74	80
Weight Each, Lbs	30	35	40	45	50	55	65	70	80	90	95	101
Each	$9 00	10 00	11 00	12 00	13 00	14 00	15 00	18 00	21 00	24 00	27 00	30 00
	10 80	12 00	13 20	14 40	15 60	16 80	18 00	21 60	25 20	28 80	32 40	36 00

MOULDERS

Painted Red Hardwood Boards Cleated Extension Handles with Leather Loop for Fastening Japanned Sheet Steel Funnel, Rough Leather Sides or Folds with Finished Leather Strips Tacked on, Leather Covered Nose Studded with Tacks, Leather Valve.

Nos.	M10	M12
Width, Inches	10	12
Length, Inches	21	22
Weight per Dozen, Lbs	29	33
Per Dozen	$26 75	32 40

HAND

For Stamping Household Fire, Blowing Dust out of Pianos, Machinery, etc. Painted Red Boards with Extension Handles and Leather Loop, Rough Leather Sides or Folds, Plain Leather Edge Strips, Japanned Sheet Steel Funnel

Nos.	H8	H10	H12
Width, Inches	8	10	12
Length, Inches	17	18½	20
Weight per Dozen, Lbs	15	21	27
Per Dozen	$13 25	19 80	26 50

BORAX

CRYSTAL LUMP

Used by Iron and Metal Workers for Welding, also Useful for Toilet, Laundry, Medicinal and Preservative Purposes. It is One of the Best Welding Products Known.

	Per Pound
No. 5—Refined Lump; Crystalized, in Barrels Containing about 350 lbs.	09 12

Sold in Bulk as Desired

WELDING COMPOUND

CHERRY HEAT

A Perfect Welding Compound. Welds Iron and Steel at Low Heat. Welds Iron to Iron, Steel to Steel and Iron to Steel.

	Per Pound
No. 1—In 1 lb. Tin Cans	09 25
No. 5—In 5 lb. Wood Boxes	22

Sold Only in Full Packages

"Diamond Edge is a Quality Pledge"

*RUGBY BICYCLES

MEN'S SERVICE MODEL

"ORIGINATED BY US"

SPECIFICATIONS

Bearings—Balls 3-32 inch in Head 5-16 inch in Hanger ¼ inch in Rear Hub 3-16 inch in Front Hub
Chain No. 65½ inch Pitch ½ inch Chain.
Connections Nickel Plated, Forged Seat Post; Coaster Bolt and Nut Fastening
Front Fork—Knuckle-Joint, Shock Absorbing Spring; Enameled to Match Frame, with Nickel Plated Reinforced Rib, Highly Nickel Plated Combination Spring and Front Mud Guard.
Crank Hanger—Genuine Rugby One-Piece; 7 inch Diamond Cranks, Highly Nickeled
Enamel—Four Coats, Hand Polished, Rugby Green, with Red and Gold Hair Line Stripes.
Frame—20, 22 and 24 inch. One inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.
Guards—Rear, Motor Cycle Style, Enameled to Match Frame; Will Not Rattle or Work Loose; Front, Nickel Plated with Leather Flap.
Handle Bar—No. 4KE Kelly Extension, No. 30R Rugby Corrugated Rubber Grips.
Hubs—Corbin Duplex or Lester Coaster Brake Rear; Front Hubs Turned from Solid Bar Stock; Tool Steel Cones and Cups.
Pedals—No 40R Rugby.
Rims—Wood, Enameled and Striped to Match Frame
Saddle—Monarch, with Combination Cushion and Universal Springs.
Spokes Diamond E; 14-16 Gauge
Sprockets—32 Tooth Front, 18 Tooth Rear, ½ inch.
Tool Bag No. 12; Contains Wrench, Oil Can and Pump.
Wheels—28 inch.
Wheel Base—43 inches.
Weight Stripped—24 Pounds.

COMPLETE BICYCLES

Equipped with Nickel Spring Fork and Corbin Coaster Brake Regularly or Lester Coaster Brake Optional and Steel Rear Mud Guard. Each

No. 700SF —Rugby Guaranteed Equipment Nickel Plated Steel Spring Fork, Motor Cycle Style Rear Guard, Enameled to Match Frame. Coaster Brake, No. 55 "Rugby" Diamond Tread Single Tube Tires, Option No. 20 Longwear Lace Tread Single Tube Tires. Finish Auto Green with Gold and Red Hair Line Stripe. This Machine will be Appreciated by Practical Riders.. .. .. **$65 50**

No. 3705SF—Same as 700 except Fitted with G. & J. Wood Steel Lined Rims No. 90 Rugby Clincher Tires **69 85**

STRIPPED BICYCLES

Equipped with Corbin Coaster Brake Regularly or Lester Coaster Brake Optional and Steel Rear Mud Guard.

Stripped Means Without Tires, Saddle, Pedals, Handle Bars or Tool Bag.

Each

No. 0700SF - With Wood Cement Rims, Enameled to Match Frame..... **$56.75**

No. 0670035F—With G. & J. Wood, Steel Lined Rims, Enameled to Match Frame..... ... **67.85**

Note—Deduct from above prices if wanted with Lester Brake. **$0 70**
One in a Crate, Average Weight Crated, 60 lbs.

Rugby Bicycles possess so many Strong Features, together with their High Grade Equipment making them Distinctive in Beauty, Strength and Durability The Nickeled Steel Spring Fork adds Comfort and Pleasure, being so Constructed as to eliminate any Jarring or Shaking Caused to the Rider over Rough Roads.

It is Adjustable and can be Regulated for Very Heavy, Medium and Light Weight Riders. The Resiliency Afforded by the Spring Fork, should the Wheel Come in Contact with Vehicles or Obstacles of any kind, Prevents Serious Accident Also Eliminates any Possibility of Bending Fork or Frame. It not only Adds Beauty to the Machine, but also Serves as a Front Guard. The Steel Lined G. & J. Wood Rims strengthen the Wheel—will also Keep them True

Our Model 700 Rugby is Undoubtedly the Most Sensible and Practical Bicycle on the Market, as it can be Ridden Every Day in the Year, regardless of Weather Conditions. The Lines are Symmetrical; Material Throughout is the Very Best—Seamless Tubing, Forged Connections, Rugby Hangers, Turned from Solid Bar Stock, Front Hub and Coaster Brake, No. 65½ inch pitch, Chain, Motor Cycle Mud Guard, Constructed so they will not Work Loose or Rattle. The Equipment is the Highest Grade Kelly Handle Bar, Big Easy Spring Saddle, Rugby Concave Hub Pedals. This Machine will be Greatly Appreciated by Practical Riders.

"DIAMOND EDGE IS A QUALITY PLEDGE"

*RUGBY BICYCLES

MEN'S ROAD MODEL

This Wheel is not only a Substantial and Serviceable Road Wheel, but has all the Lines and Beauty of a Racing Model. It has been Built Throughout According to Our Own Specifications.

"ORIGINATED BY US"

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls 5-32 inch in Head; 3-16 inch in Hanger; ¼ inch in Rear Hub, 3-16 inch in Front Hub.

Chain—No. 31 Diamond, Blued and Highly Polished, 3/16 inch.

Connections—Triple Plate Arch Fork Crown, Nickel Plated; Forged Seat Post; Cluster Bolt and Nut Fastening.

Front Fork—Enameled to Match Frame, with Nickel Plated Reinforced Rib.

Crank Hanger—Genuine Rugby One-Piece, 7 inch Diamond Cranks; Highly Nickeled.

Enamel—Color: Red with White Head and Seat Post Mast

Frame—20, 22 and 24 inch, One inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.

Handle Bar—No. RER Rugby Extension; No. 30R Rugby Corrugated Rubber Grips.

Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.

Pedals—No. 40R Rugby

Rims—One-Piece Rock Elm; Enameled and Striped to Match Frame.

Saddle—No. 032RC Rugby with Universal Cushion Springs.

Spokes—Diamond E; 14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 12; Contains Wrench, Oil Can and Pump.

Wheels 28 inch

Wheel Base—43 inches.

Weight Stripped—17 lbs.

COMPLETE BICYCLES

		Each
No. 376R	**Regular.** (See above.) No. 3 Guaranteed Equipment No. 20 Longwear Lace Tread Single Tube Tires	$48 20
No. 2376R	—No. 2 Guaranteed Equipment; No. 302 Star Single Tube Tires	41 80
No. 2X376R	—No. 2X Guaranteed Equipment; No. 3028 Gold Service Non-Skid Single Tube Tires	44 00
No. 4376R	—No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires, Option, No. 20 Longwear Lace Tread, Single Tube Tires	46 40
No. 5376R	—No. 5 Guaranteed Equipment; No. 90 Rugby Cyncher Tires. See pages 3101 and 3102	54 80
No 7376R	No. 7 Guaranteed Equipment Staple Special Single Tube Tires	42 80
No 8376R	No. 8 Guaranteed Equipment No. 80 Speeder Cyncher Tires	48 40
No. 9376R	—No. 9 Guaranteed Equipment No. 20 Longwear Lace Tread Single Tube Tires	48 40

One in a Crate. Average Weight Crated, 50 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag.

	Each
No. 0376R	$30.50

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7 15
	Pair
For Front and Rear Guards, Enameled to Match Frame.	Add 2 20

"DIAMOND EDGE IS A QUALITY PLEDGE"

*RUGBY BICYCLES

MEN'S ROAD MODEL

"Originated By Us"

This Wheel is not only a Substantial and Serviceable Road Wheel, but has all the Lines and Beauty of a Racing Model. It has been Built Throughout According to Our Own Specifications

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls 5-32 inch in Head, 5-16 inch in Hanger, ¼ inch in Rear Hub, 3-16 inch in Front Hub.

Chain—No. 31 Diamond, Blued and Highly Polished; 3-15 inch.

Connections—Triple Plate Arch Fork Crown, Nickel Plated; Forged Seat Post, Cluster Bolt and Nut Fastening.

Front Fork—Enameled to Match Frame, with Nickel Plated Reinforced Rib.

Crank Hanger—Genuine Rugby One-Piece; 7 inch Diamond Cranks, Highly Polished.

Enamel—Color: Blue with Black Head and Seat Post Mast

Frame—20, 22 and 24 Inch; One inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.

Handle Bar—No. RER Rugby Extension; No. 30R Corrugated Rubber Grips

Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.

Pedals—No. 40R Rugby.

Rims—One-Piece Rock Elm; Enameled and Striped to Match Frames.

Saddle—No. 052RC Rugby with Universal Cushion Springs.

Spokes—Diamond E; 11 16 Gauge.

Sprockets—20 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 12; Contains Wrench, Oil Can and Pump

Wheels—28 inch.

Wheel Base—43 Inches

Weight Stripped—17 Pounds.

COMPLETE BICYCLES

		Each
No. 375B—**Regular** (See above) No. 3 Guaranteed Equipment; No. 20 Longwear Lace Tread Single Tube Tires	See Pages 3101 and 3102	$40 20
No. 2376B—No. 2 Guaranteed Equipment, No. 50 Star Single Tube Tires		41 80
No. 2X376B—No. 2X Guaranteed Equipment, No. 102R Goal Service Non Skid Single Tube Tires		44 00
No. 4376B—No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires, Option, No. 20 Longwear Lace Tread Single Tube Tires		48 40
No. 5376B—No. 5 Guaranteed Equipment, No. 90 Rugby Clincher Tires		52 80
No. 7376B—No. 7 Guaranteed Equipment, Shapleigh Special Single Tube Tires		42 06
No. 8376B—No. 8 Guaranteed Equipment, No. 85 Speeder Clincher Tires		45 10
No. 9376B—No. 9 Guaranteed Equipment; No. 20 Longwear Lace Tread Single Tube Tires		48 40

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 0376B	$30 80

EXTRAS

	Each
For Coaster Brake	Add 7 15
For Lestr Brake	Add 7 15
	per Pair
For Front and Rear Guards, Enameled to Match Frame	Add 2 20

One in a Crate; Average Weight Crated, 50 Pounds

In this Wheel We Have Combined Every Excellence that can Enter into the Building of a Ladies' Bicycle, and We Feel Confident that Our No. 379 Series Rugby is Unsurpassed. The Frame is Especially Designed to Give the Highest Possible Rigidity, and at the same time Retain the Easy Running Qualities.

*RUGBY BICYCLES

LADIES MODEL

"ORIGINATED BY US"

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls: 5-32 inch in Head; 5-16 inch in Hangers ¼ inch in Rear Hub; 3-16 inch in Front Hub.
Chain—No. 31 Diamond, Blued and Highly Polished 3-16 inch.
Connections—Triple Plate Arch Fork Crown, Nickel Plated, Forged Seat Post, Cluster Bolt and Nut Fastening.
Front Fork—Enameled to Match Frame Design with Reinforced Nickel Plated Rib
Crank Hanger—Ball Bearing Rugby, One Piece, 7 inch Diamond Cranks, Highly Nickeled.
Enameled—Four Coats Hand Polished Rugby Green with Green and Red Hair Line Stripes.
Frame—25 inch, One Inch, Eighteen Gauge English High Carbon Seamless Tubing Throughout.
Guards—Steel Front Fork and Chain Guards, 8 inch Leather Flap on Front Guard, are Light and Graceful; can be Easily Detached Being Fastened to the Frame by an Ingenious Device, they Cannot Work Loose.
Handle Bar—No. 8A Rugby, No. 30R Corrugated Rubber Grips.
Hubs—Turned from Solid Bar Stock, Tool Steel Cones and Cups.
Pedals—No. 40R Rugby with Rubbers.
Rims—One-Piece Rock Elm; Enameled and Striped to Match Frame
Saddle—No. 07RC Rugby.
Spokes—Diamond E; 14-16 Gauge.
Sprockets—22 Tooth Front, 9 Tooth Rear, 3-16 inch.
Tool Bag—No. 3, Contains Wrench, Oil Can and Pump.
Wheels—28 inch.
Wheel Base—44 inches.
Weight Stripped—22 pounds.

COMPLETE BICYCLES

		Each
No. 379—Regular. (See above.) No. 3 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires	See pages 3101 and 3102	$48 40
No. 2379—No. 2 Guaranteed Equipment, No. 30 Star Single Tube Tires		44 60
No. 2X379—No. 2X Guaranteed Equipment, No. 3028 Good Service Non-Skid Single Tube Tires		45 00
No. 4379—No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires. Option, No. 20 Longwear Lace Tread Single Tube Tires		50 00
No. 5379—No. 5 Guaranteed Equipment, No. 90 Rugby Clincher Tires		52 00
No. 8379—No. 8 Guaranteed Equipment, No. 85 Speeder Clincher Tires		48 40

One in a Crate, Average Weight Crated, 55 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bars or Tool Bag.

	Each
No. 8379	$33 00

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7 15

"DIAMOND EDGE IS A QUALITY PLEDGE"

*RUGBY BICYCLES

BOY SCOUT MODEL—No. 307

18-IN FRAME 28-IN. WHEELS
Heavy Gauge English Seamless Steel Tubing

"ORIGINATED BY US"

Cut Shows No. JM Junior Motor Cycle Pedal used on No. 307 Boy Scout Bicycle. Extra Large Rubbers, Insuring a Perfect and Safe Foothold

Cut Shows No. 40B Boy Scout Rubber Grip, 7 inches Long. These Grips Give Absolute Control Over the Steering at All Times. No Danger of Slipping Out of the Hands on Uneven Roads.

Cut Shows No. 11RC Rugby Saddle, the Largest Saddle Ever Used on a Bicycle of this Size. Made for Rough Riding Purposes.

PRICE
Without Coaster Brake
$35 90

With Coaster Brake
Add $7 15

With Lester Brake
Add $7 15

Cut Shows No. 8 Tool Bag, with Pump, Oil Can and Wrench.

All Necessary Tools for Repair Purposes Furnished in this Kit.

Good Service Non-Skid Tires Used on This Bicycle

The Tire Ahead of Them All in Quality, Weight and Construction.

SPECIFICATIONS

Bearings—Ball 5-32 inch in Head; 5-16 inch in Hanger; ¼ inch in Rear Hub; 3-16 inch in Front Hub. Ball Cases and Cones Ground True, Properly Hardened and Dust-Proof.
Chain—No. 9 Diamond, 3-16 inch
Chain Adjusters—Drop Forged
Connections—One Piece Drop Forged Fork Crown, Highly Nickeled, Forged Seat Post; Cluster Bolt and Nut Fastening
Crank Hanger—Rugby One Piece; 5¼-inch Diamond Cranks; Highly Nickeled
Enamel—Four Coats Hand-Rubbed Green, with Black Head; Front Fork Nickel Plated at Top and Bottom, Green Enameled in Center.
Frame—One inch, 18-Gauge English High Carbon Seamless Steel Tubing
Handle Bar—No. RA Rugby Non-Rust Adjustable; No. 40B Boy Scout Rubber Grips.
Hubs—Ball Shape, Tool Steel Cones, Hardened and Ground, Pressed Cups and Ball Washers Inserted
Pedals—No. JM Junior Motor Cycle
Rims—One Piece Rock Elm, Enameled to Match Frame
Saddle—No. 11RC Rugby
Seat-Post—"L" Pattern
Spokes—No. 2, 14-16 Gauge
Sprockets—25 Tooth Front, 9 Tooth Rear, 3-16 inch.
Tires—Good Service Non-Skid Single Tube
Tool Bag—No. 8; Contains Wrench, Oil Can and Pump
Wheel Base—39½ inches

One in a Crate; Average Weight, Crated, 43 Pounds

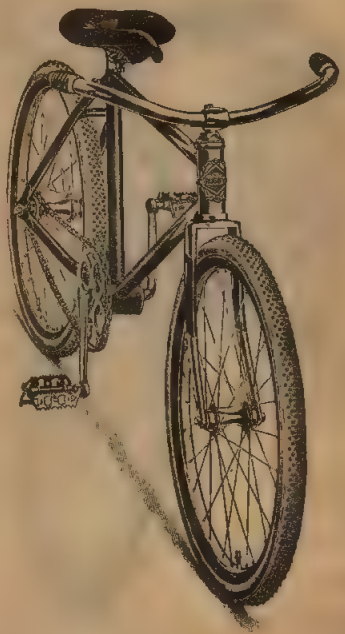
"DIAMOND EDGE IS A QUALITY PLEDGE"

* RUGBY BICYCLES

BOYS' MODEL

"ORIGINATED BY US"

Our Rugby Juvenile Bicycles are made with the Same High Grade Material and the Same Care as the Rugby Adult Models. They are Built Strong and Serviceable. No Pains or Expense Have Been Spared to Make them the Best on the Market.



SPECIFICATIONS ON REGULAR MODEL

Bearings—Ball Cone inch in Head, 3-16 inch in Hanger; ¼ inch in Rear Hub, 3-16 inch in Front Hub, Ball Cases and Cones Ground True, Properly Hardened and Dust Proof.

Chain—No. 6 Diamond, 3-10 inch.

Chain Adjusters—Drop Forged.

Connections—One Piece Drop Forged Fork Crown, Highly Nickeled; Forged Seat Post; Cluster Bolt and Nut Fastening.

Crank Hanger—Rugby One Piece; 5½ inch Diamond Cranks, Highly Nickeled.

Enameled—Four Coats Hand Rubbed Black, with Crimson Head; Front Fork Nickel Plated at Top and Bottom, Black Enameled in Center.

Frame—One inch Eighteen Gauge English High Carbon Seamless Steel Tubing.

Handle Bar—No. 1RA Rugby, Non-Rust, Adjustable; No. 14J Grips.

Hubs—Ball Shape Tool Steel Cones, Hardened and Ground; Pressed Cups with Ball Washers Inserted.

Pedals—No. 11 Bridgeport.

Rims—One-Piece Rock Elm, Enameled to Match Frame.

Saddle—No. 10R Rugby.

Seat Post—"L" Pattern.

Spokes—No. 2; 14-16 Gauge.

Sprockets—20 Tooth Front, 9 Tooth Rear, 3-16 inch.

Tires—Good Service Non-Skid Single Tube.

Tool Bag—No. 8; Contains Wrench, Oil Can and Pump.

Wheel Base—No. 301, 33½ inches; No. 303, 37½ inches; No. 306, 39½ inches.

Weight Stripped—No. 301, 17 lbs.; No. 303 17½ lbs. No. 305, 18 lbs.

COMPLETE BICYCLES

			Each
No. 301 20 inch Wheels, 14 inch Frame	**Regular** (See above)	No. 6 Guaranteed Equipment	$30 80
No. 303 24 inch Wheels, 16 inch Frame		No. 9 Guaranteed Equipment	30 80
No. 305—26 inch Wheels, 18 inch Frame		No. 6 Guaranteed Equipment	31 90
No. 1301—20 inch Wheels, 14 inch Frame	No. 6X Unguaranteed Equipment (See Pages 3101 and 3102)		23 60
No. 1303—24 inch Wheels, 16 inch Frame			25 60
No. 1305—26 inch Wheels, 18 inch Frame			29 70

One in a Crate; Average Weight Crated 45 lbs.

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7.15

"DIAMOND EDGE IS A QUALITY PLEDGE"

* RUGBY BICYCLES

GIRLS MODEL

"ORIGINATED BY US"

Our Rugby is Undoubtedly the Best Looking Girls' Juvenile Bicycle on the Market. It Has Many of the Up-to-date Features of the Full Size Ladies' Rugby. The Equipments—Handle Bar, Saddle, Pedals, Etc., are First-Class in Every Respect. All of Which, Including the Tires, are Guaranteed Against Defective Workmanship and Material. Enameled Black with Crimson Head. Rims and Guards to Match.

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls 5-32 inch in Head; 5-16 inch in Hanger; ¼ inch in Rear Hub, 3-16 inch in Front Hub. Ball Cases and Cones Ground True, Properly Hardened and Dust Proof

Chain—No. 9 Diamond; 3-16 inch.

Chain Adjusters—Drop Forged.

Connections—One Piece Drop Forged Fork Crown, Highly Nickeled. Forged Seat Post, Cluster Bolt and Nut Fastening.

Crank Hanger—Rugby One Piece; 5½ inch Diamond Cranks; Highly Nickeled.

Enamel—Four Coats Hand Rubbed Black, with Crimson Head. Front Fork Nickel Plated at Top and Bottom, Black Enameled in Center.

Frame—One inch, Eighteen Gauge English High Carbon Seamless Steel Tubing.

Handle Bar—No. 1RA Rugby. Non-Rust; Adjustable; No. 14J Grips.

Hubs—Ball Shape Tool Steel Cones, Hardened and Ground; Pressed Cups with Ball Washers Inserted.

Pedals—No. 12 Bridgeport, with Rubbers.

Rims—One Piece Rock Elm; Enameled to Match Frame.

Saddle No. 10R Rugby.

Seat Post—"L" Pattern.

Spokes—No. 2 14-16 Gauge.

Sprockets—20 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tires—Good Service Non Skid Single Tube.

Tool Bag—No. 8, Contains Wrench, Oil Can and Pump.

Wheel Base—No. 302, 33½ inches; No. 304, 37½ inches; No. 306, 39½ inches.

Weight Stripped—No. 302, 17 lbs.; No. 304, 17½ lbs.; No. 306, 18 lbs

COMPLETE BICYCLES

			Each
No. 302—20 Inch Wheels; 14 inch Frame	Regular (See above)	No. 6 Guaranteed Equipment	$31.00
No. 304—26 Inch Wheels; 16 inch Frame		No. 6 Guaranteed Equipment	31.00
No. 306—26 Inch Wheels; 18 inch Frame		No. 6 Guaranteed Equipment	33.00
No. 1302—20 Inch Wheels; 14 inch Frame	No. 6X Unguaranteed Equipment (See Pages 3101 and 3102)		29.70
No. 1304—24 Inch Wheels; 16 inch Frame			29.70
No. 1306—26 Inch Wheels; 18 inch Frame			30.30

One in a Crate. Average Weight Crated, 45 lbs

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7 15

"DIAMOND EDGE IS A QUALITY PLEDGE"

* SHAPLEIGH SPECIAL BICYCLES

MEN'S TRUSS FRAME

The Shapleigh Special Reinforced Truss Frame Construction is of the Latest and Most Approved Design. The Extra Bar is Placed Where it Gives the Most Strength. Dealers will Find this an Exceptional Seller.

"ORIGINATED BY US"

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls, 5-32 inch in Head; 5-16 inch in Crank Hanger; ¼ inch in Rear Hub; 3-16 inch in Front Hub.
Chain—No. 9 Diamond 3-16 inch, Option ½ inch Pitch Roller Chain.
Connections—Three Piece Orient Design Fork Crown, Nickel Plated Forged Seat Post Cluster Bolt and Nut Fastening.
Crank Hanger—Shapleigh Special One Piece 7 inch Round Cranks, Highly Nickeled.
Enamel—Four Coats Hand Rubbed Black, with Crimson Head and Seat Post Mast; Colors Separated by Gold Hair Line Stripes.
Frame—20, 22 and 24 inch; One inch, Eighteen Gauge Shelby Seamless Tubing.
Handle Bar—No. RER Rugby Extension; No. 30R Rugby Corrugated Rubber Grips.
Hubs—Turned from Solid Bar Stock; Tool Steel Cones and Cups.
Pedals—No. 40R Rugby.
Rims—One Piece Rock Elm; Enameled to Match Frame.
Saddle—No. 052RC Rugby with Universal Cushion Springs.
Spokes—No. 2; 14-16 Gauge.
Sprockets—20 Tooth Front, 9 Tooth Rear, 3-16 inch.
Tool Bag—No. 12, Contains Wrench, Oil Can and Pump.
Wheels—28 inch.
Wheel Base—43 inches.
Weight Stripped—17 lbs.

COMPLETE BICYCLES

		Each
No. 4X8	**Regular.** (See above.) No. 2X Guaranteed Equipment. No. 3028 Good Service Non-Skid Single Tube Tires	$46 70
No. 1X364	No. 1X Guaranteed Equipment No. 4028 Stimulator Non Skid Single Tube Tires	37 40
No. 1488	—No. 1 **Unguaranteed** Equipment; Mound City Single Tube Tires	36.30
No. 2488	—No. 2 Guaranteed Equipment, No. 30 Star Single Tube Tires	39.60
No. 3488	—No. 3 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires	44.00
No. 4488	No. 4 Guaranteed Equipment No. 55 Rugby Single Tube Tires, Option, No. 20 Longwear Lace Tread Single Tube Tires	47.30
No. 5488	—No. 5 Guaranteed Equipment; No. 30 Rugby Clincher Tires	50.60
No. 7488	No. 7 Guaranteed Equipment, Shapleigh Special Single Tube Tires	41.80
No. 8488	—No. 8 Guaranteed Equipment, No. 85 Speeder Clincher Tires	45.10
No. 9488	—No. 9 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tire	47.30

See Pages 3111 and 3102

One in a Crate; Average Weight Crated, 50 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 0498	$27 50

EXTRAS

For Coaster Brake	Add $7.15
For Lester Brake	Add 7.15
For Front and Rear Guards, Enameled to Match Frame	For Pair Add 2.90

*SHAPLEIGH SPECIAL BICYCLES

MEN'S ROAD MODEL

This Bicycle is Acknowledged to be the Most Satisfactory ever sold at the Price. It is Strictly Up-to-date. Only Good Material is Used in its Construction. Dealers will Find it to be a Great Seller.

"ORIGINATED BY US"

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls; 5-32 inch in Head, 5-16 inch Crank Hanger; ¼ inch in Rear Hub, 3-16 inch in Front Hub.

Chain—No. 9 Diamond; 3-16 inch; Option, 1 inch Pitch Roller Chain.

Connections—One Piece Dropped Forged Diamond Shape Fork Crown, Nickel Plated; Forge Seat Post; Cluster Bolt and Nut Fastening.

Crank Hanger—Shapleigh Special, One Piece, 7 inch Round Cranks, Highly Nickeled.

Enameled—French Gray with Ox Blood Head.

Frame—20, 22 and 24 inch, One inch, Eighteen Gauge Shelby Seamless Tubing.

Handle Bar—No. RER Rugby Extension, No. 14LS Grips.

Hubs—Turned from Solid Bar Stock, Tool Steel Cones and Cups.

Pedals—No. 40R Rugby.

Rims—One Piece Rock Elm; Aluminum Finished with Blue and Red Hair Line Stripe.

Saddle—No. 11RC Rugby with Truss Springs.

Spokes—No. 2; 14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear, 3-16 inch.

Tool Bag—No. 12; Contains Wrench, Oil Can and Pump.

Wheels—28 inch.

Wheel Base—43 inches.

Weight Stripped—17 lbs.

COMPLETE BICYCLES

		Each
No. 300G —Regular. (See above.) No. 2 Guaranteed Equipment: No. 30 Star Single Tube Tires		$36 30
No. 1300G —No. 1 Unguaranteed Equipment, Mound City Single Tube Tires		33 00
No. 1X300G—No. 1X Guaranteed Equipment: No. 4028 Stimulator Non-Slip Single Tube Tires		35 75
No. 2X330G—No. 2X Guaranteed Equipment, No. 2028 Good Service Non-Skid Single Tube Tires		37 40
No. 3300G —No. 3 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires		39 60
No. 4300G —No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires, Option, No. 20 Longwear Lace Tread Single Tube Tires	See Pages 3101 and 3102	43 65
No. 5300G —No. 5 Guaranteed Equipment: No 90 Rugby Clincher Tires		45 70
No. 7300G —No. 7 Guaranteed Equipment, Shapleigh Special Single Tube Tires		37 60
No. 8300G —No. 8 Guaranteed Equipment, No. 85 Speeder Clincher Tires		42 90
No. 9300G —No. 9 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires		44 00

One in a Crate; Average Weight Crated, 50 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 0300G	$33 65

EXTRAS

For Coaster Brake	Add $7 15
For Lester Brake	Add 7 15
	Per Pair
For Front and Rear Mud Guards, Enameled to Match Frame	Add 3 30

"DIAMOND EDGE IS A QUALITY PLEDGE"

* SHAPLEIGH SPECIAL BICYCLES

MEN'S ROAD MODEL

"ORIGINATED BY US"

This Bicycle is Acknowledged to be the Most Satisfactory ever Sold at the Price. It is Strictly Up-to-Date. Only Good Material is Used in Its Construction. Dealers will Find it to be a Great Seller.

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls, 3-32 inch in Head, 5-16 inch in Crank Hanger; ¼ inch in Rear Hub; 3-16 inch in Front Hub.

Chain—No. 9 Diamond; 3-16 inch; Option 1 inch Pitch Roller Chain.

Connections—One Piece Drop Forged Diamond Shape Fork Crown, Nickel Plated; Forged Seat Post; Cluster Bolt and Nut Fastening

Crank Hanger—Shapleigh Special, One Piece; 7 inch Round Cranks; Highly Nickeled.

Enamel—Four Coats Hand Polished Black, with Double Hair Line Gold Stripes.

Frame—20, 22 and 24 inch, One inch, Eighteen Gauge Shelby Seamless Tubing

Handle Bar—No. RER Rugby Extension; No. 14LS Grips.

Hubs—Turned from Solid Bar Stock, Tool Steel Cones and Cups.

Pedals—No. 40R Rugby.

Rims—One Piece Rock Elm; Enameled to Match Frame.

Saddle—No. 11RC Rugby with Truss Springs.

Spokes—No. 2; 14-16 Gauge.

Sprockets—20 Tooth Front, 9 Tooth Rear, 3-16 inch

Tool Bag—No. 12; Contains Wrench, Oil Can and Pump.

Wheel—28 inch

Wheel Base—43 inches.

Weight Stripped—17 lbs.

COMPLETE BICYCLES

		Each
No. 386R	**—Regular.** (See above.) No. 2 Guaranteed Equipment; No. 30 Star Single Tube Tires	$36.30
No. 1X386B	—No. 1X Guaranteed Equipment, No. 1028 Stimulator Non Sk. Single Tube Tires	35 75
No. 1386B	—No. 1 Unguaranteed Equipment, Mound City Single Tube Tires	33.90
No. 2X386B	—No. 2X Guaranteed Equipment; No. 3028 Good Service Non-Skid Single Tube Tires	37 40
No. 3386B	—No. 3 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires	39 60
No. 4386B	—No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires, Option, No. 90 Longwear Lace, Tread Single Tube Tires	43 45
No. 5386B	—No. 5 Guaranteed Equipment; No. 60 Rugby Clincher Tires	45 70
No. 7386B	—No. 7 Guaranteed Equipment; Shapleigh Special Single Tube Tires	37 40
No. 8386B	—No. 8 Guaranteed Equipment No. 85 Speeder Clincher Tires	42 00
No. 9386B	—No. 9 Guaranteed Equipment No. 20 Longwear Lace Tread Single Tube Tires	44 00

See Pages 3101 and 3102

One in a Crate; Average Weight Crated, 50 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 386B	$33 65

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7.15
	Per Pair
For Front and Rear Mud Guards, Enameled to Match Frame	Add 2 20

*SHAPLEIGH SPECIAL BICYCLES

LADIES' MODEL

Material and Workmanship of this Machine are Exactly the Same as in Our Nos. 366R and 366B Shapleigh Special. It is One of the Best Designed Ladies' Machines on the Market.

"ORIGINATED BY US"

SPECIFICATIONS ON REGULAR MODEL

Bearings—Balls, 5-32 inch in Head, 5-16 inch in Hanger ¼ inch in Rear Hub 5-16 inch in Front Hub.

Chain—No. 9 Diamond 3/8 inch, Option 1 inch Pitch Rolled Chain

Connections—One Piece Drop Forged Diamond Shape Fork Crown, Nickel Plated, Forged Seat Post, Cluster Bolt and Nut Fastening.

Crank Hanger—Shapleigh Special One Piece; 7 inch Round Crank Highly Nickeled.

Enamel—Four Coats Hand Rubbed Black, with Double Hair Line Gold Stripes.

Frame—22 inch; One inch, Eighteen Gauge Shelby Seamless Tubing

Guards—Steel Front, Rear and Chain Guards, Enameled to Match Frame 8 inch Leather Flap on Front Guard.

Handle Bar—No. RA Rugby No. 14LS Grips.

Hubs—Turned from Solid Bar Stock, Tool Steel Cones and Cups.

Pedals—No. 40R with Rubbers

Rims—One Piece Rock Elm, Enameled to Match Frame

Saddle—No. 07RC Rugby.

Spokes—No. 2, 14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 8, Contains Wrench, Oil Can and Pump.

Wheels—28 inch.

Wheel Base—44 inches

Weight Stripped—22 lbs.

COMPLETE BICYCLES

		Each
No. 380	Regular. See above. No. 2 Guaranteed Equipment, No. 30 Sear Single Tube Tires	$30 60
No. 1380	—No. 1 Unguaranteed' equipment, Mound City Single Tube Tires	36 30
No. 1X380	—No. 1X Guaranteed Equipment, No. 4028 Stimulator Non-Skid Single Tube Tires	38 50
No. 2X380	—No. 2X Guaranteed Equipment, No. 4028 Good Service Non-Skid Single Tube Tires	40 70
No. 3380	—No. 3 Guaranteed Equipment, No. 20 Longwear Lace Tread Single Tube Tires	See Pages 3101 and 3102 44 00
No. 4380	—No. 4 Guaranteed Equipment, No. 55 Rugby Single Tube Tires Option, No. 20 Longwear Lace Tread Single Tube Tires	47 30
No. 5380	—No. 5 Guaranteed Equipment, No. 90 Rugby Clincher Tires	50 90
No. 8380	—No. 8 Guaranteed Equipment, No. 85 Speeder Clincher Tires	47 30

One in a Crate; Average Weight Crated, 55 lbs.

STRIPPED BICYCLES

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 0380	$27 00

EXTRAS

	Each
For Coaster Brake	Add $7 15
For Lester Brake	Add 7 15

"DIAMOND EDGE IS A QUALITY PLEDGE"

*WONDER BICYCLES

MEN'S ROAD MODEL

"ORIGINATED BY Us"

This is Made to Meet the Demand for a Low Priced Bicycle of Quality.

SPECIFICATIONS ON REGULAR

Bearings—Balls 5-32 inch in Head, 5-16 inch in Crank Hanger, ¼ inch in Rear Hub; 3-16 inch in Front Hub.

Chain—Roller Chain; One inch Pitch.

Connections—Flat Drop Forged Nickel Plated Fork Crown, Drop Forged Seat Post, Cluster Bolt and Nut Fastening

Crank Hanger—One Piece Drop Forged, 7 inch Round Cranks.

Enamel—Hand Polished Maroon with Black Head. Option. Hand Polished Black with Red Head.

Frame—20, 22 and 24 inch; One inch, Seamless Tubing.

Handle Bar—No. RER Rugby Non-Rust Adjustable; No. 14LS Grips.

Hubs—Front Hub, Ball Shape; Tool Steel Cones Hardened and Ground; Cups Pressed, with Ball Retainers.

Coaster Brake—Corbin Regular, Lester when specified.

Pedals—Rex or Bridgeport, No. BC.

Rims—One Piece; Enameled Black with Red Center and Two Gold Hair Line Stripes.

Saddle—No. 11RC Rugby.

Spokes—No. 2; 14-16 Gauge.

Sprockets—26 Tooth Front, 9 Tooth Rear; 3-16 inch.

Tool Bag—No. 8; Contains Wrench, Oil Can and Pump.

Wheels—28 inch.

Wheel Base—43 Inches.

Weight Stripped—17 lbs.

COMPLETE BICYCLES

Equipped with Corbin or Lester Coaster Brake

		Each
No. 1912	**Regular.** (See above.) Special Guaranteed Equipment; No. 30 Size Single Tube Tires	$35 50
No. 11912	—No. 1 **Unguaranteed** Equipment Medal City Single Tube Tires	36 30
No. 1X1912	—No. 1X Guaranteed Equipment, No. 1085 Traditor Non Skid Single Tube Tires	37 40
No. 2X1912	—No. 2X Guaranteed Equipment No. 1025 Good Service Non-Skid Tires	41 80
No. 31912	No. 3 Guaranteed Equipment; No. 20 Longwear Lace Tread Single Tube Tires.	44 00
No. 41912	No. 4 Guaranteed Equipment; No. 55 Rugby Single Tube Tires Option No. 20 Longwear Lace Tread Single Tube Tires	See Pages 4101 and 3102 47 30
No. 51912	—No. 5 Guaranteed Equipment; No. 70 Rugby Clincher Tires	35 20
No. 71912	—No. 7 Guaranteed Equipment; Shapleigh Special Single Tube Tires.	[illegible]
No. 81912	—No. 8 Guaranteed Equipment; No. 88 Speeder Clincher Tires	44 00
No. 91912	—No. 9 Guaranteed Equipment; No. 20 Longwear Lace Tread Single Tube Tires	40 75

One in a Crate Average Weight Crated, 50 lbs.

STRIPPED BICYCLES

Equipped with Corbin or Lester Coaster Brake

Stripped Means Without Tires, Saddle, Pedals, Handle Bar or Tool Bag

	Each
No. 01912	$28 60

EXTRAS

For Front and Rear Mud Guards' Enameled to Match Frame	Per pair Add $2 20
Without Coaster Break	Each Deduct $5.30

POCKET KNIVES

* J. KOESTER'S SONS, GERMANY

This is a Factory Line which we Control the Sale of for the U. S., Comprising a Most Excellent Line of Patterns, Mostly Pen Knives. They are Very Highly Finished and Exceptionally Well Made Throughout. Many have the Impression that German Knives are a Cheap and Inferior Quality. They do Make Some Very Cheap Goods, but, in Addition, they Make Some Exceptionally High Grade Lines, and our "KOESTER" Line is in the First Rank of Quality and Perfection, the Knives Being Sold at Attractive Prices.

J. KOESTER'S SONS'

CELEBRATED "CLOVER BRAND" CUTLERY

Our productions are of the very finest quality. They are made of the very best ENGLISH CRUCIBLE CAST STEEL, hardened and tempered by experienced workmen and sent out ready for use.

In whetting a POCKET KNIFE the blade should be held at an angle and not laid flat on the stone like a RAZOR.

The JOINTS SHOULD BE KEPT OILED, and the knife will work smooth and open and shut well

Shapleigh Hardware Co.

St. Louis

SOLE AGENTS FOR THE UNITED STATES.

Fac-simile of the Circular Wrapped Around Each Koester Pocket Knife

POCKET KNIVES

Cuts Full Size

SILVER STEEL.

No. 2679—Two Blades, 3¼ in. Stag Handle, Steel Lined, Steel Bolster, Glazed . Per Dozen $4 00

One-half Dozen in a Box

No. 2676—Two Blades, 3¼ in. Stag Handle, Brass Lined, Steel Bolster, Polished..... Per Dozen $8.00

One-half Dozen in a Box

No. 2682—Two Blades, 3⅛ in. Stag Handle, Brass Lined, Steel Bolster, Polished ..... . Per Dozen $9 00

One half Dozen in a Box

No. 2980—Two Blades, 3⅛ in. Nickel Plated Handle, Steel Lined, Polished..... Per Dozen $9 00

One-half Dozen in a Box

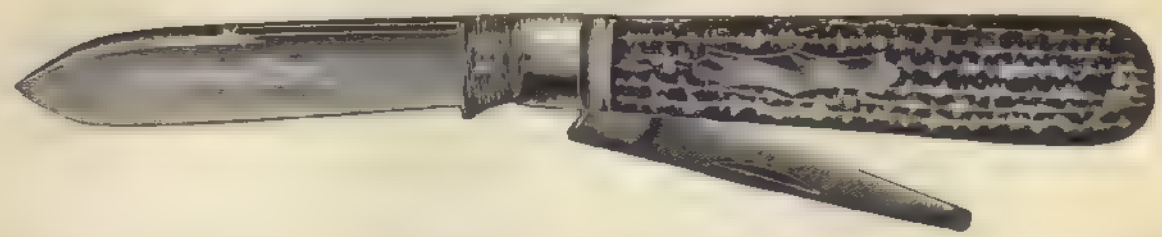
No. 1381—Cotton Knife, One Blade, 3⅞ in. Redwood Handle, Steel Lined Steel Bolster, Glazed . . . . Per Dozen $9 00

One-half Dozen in a Box

POCKET KNIVES

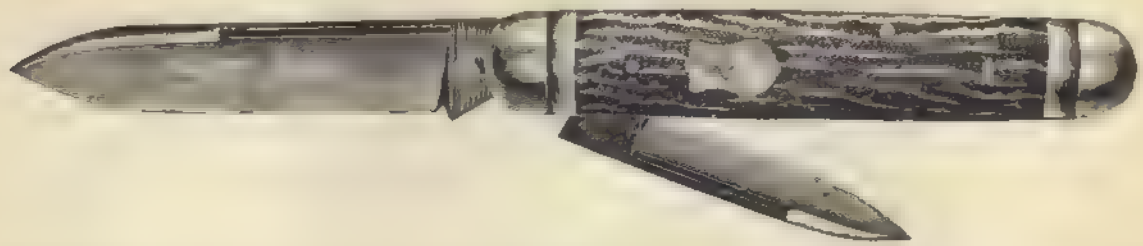
Cuts Full Size

SILVER STEEL



No. 2691—One Blade and Awl, 3⅝ in. Stag Handle, Brass Lined, Steel Bolster, Polished. . . . . Per Dozen $9.00

One-half Dozen in a Box

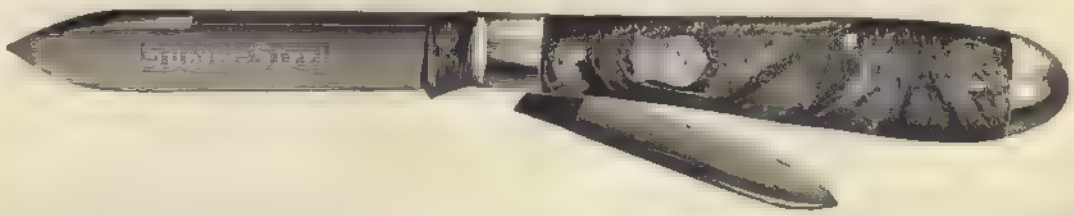


No. 2692—Two Blades, 3⅝ in Stag Handle Brass Lined, Steel Bolster and Cap, Polished . . . . . Per Dozen $9 00

One-half Dozen in a Box

No. 2678—Easy Opener, Two Blades 3½ in Stag Handle, Brass Lined Steel Bolster and Cap, Glazed. . . Per Dozen $9 00

One-half Dozen in a Box



No. 2894SP—Two Blades, 3⅝ in Smoked Pearl Handle, Brass Lined German Silver Bolster and Cap Polished . . . . . Per Dozen $12.00

One-half Dozen in a Box

No. 2875GB Two Blades, 3¼ in Grey Bone Handle, Brass Lined German Silver Bolster and Cap, Polished . Per Dozen $12 00

One-half Dozen in a Box.

POCKET KNIVES

Cuts Full Size

SILVER STEEL

No. 2668 Two Blades, 3½ in Stag Handle, Brass Lined, German Silver Bolster and Cap, Polished. Per Dozen $12 00

One-half Dozen in a Box

No. 28746R—Two Blades, 3⅝ in Grey Bone Handle, Brass Lined, Steel Bolster, German Silver Cap, Polished. Per Dozen $12 00

One-half Dozen in a Box.

No. 3665 Two Blades and Awl 3⅝ in Stag Handle, Brass Lined German Silver Bolster Polished Per Dozen $18.00

One-half Dozen in a Box

No. 2785 Two Blades, 2⅞ in Pearl Handle, Brass Lined, German Silver Bolster and Cap, Polished . Per Dozen $20 00

One-half Dozen in a Box.

No. 2777—Two Blades, 3¾ in. Pearl Handle, Brass Lined, German Silver Bolster and Cap, Polished . . Per Dozen $24 00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 2887SP Two Blades, 2⅝ in Smoked Pearl Handle Brass Lined, German Silver Bolster and Cap Polished $9 00

One-half Dozen in a Box

Per Dozen

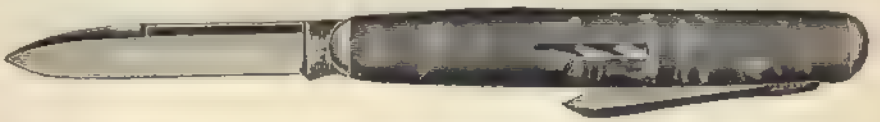
No. 2788—Two Blades, 2⅝ in. Pearl Handle, Brass Lined, German Silver Bolster and Cap, Polished.....$12 50

One-half Dozen in a Box

Per Dozen

No. 2678—Two Blades, 3⅜ in Stag Handle, Brass Lined, German Silver Tips, Polished.. $9 00

One-half Dozen in a Box



Per Dozen

No. 2893SP Two Blades 3⅜ in Smoked Pearl Handle, Brass Lined German Silver Tips, Polished $12 00

One-half Dozen in a Box

Per Dozen

No. 2870DP—Two Blades, 3¼ in Striped Celluloid Handle, Brass Lined German Silver Tips, Polished $14.00

One half Dozen in a Box

Per Dozen

No. 4786—Four Blades, 3⅜ in. Pearl Handle, Brass Lined, Steel Bolsters, Polished $24.00

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

POCKET KNIVES

Cuts Full Size

SILVER STEEL

No. 28208—Two Blades, 2¾ in. Shell Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished ..... Per Dozen $9 00

One-half Dozen in a Box

No. 2621—Two Blades, 3⅛ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished ..... Per Dozen $9.00

One-half Dozen in a Box

No. 2606—Two Blades, 2⅞ in. Stag Handle, Brass Lined German Silver Bolster and Cap, Half Polished Per Dozen $8 00

One-half Dozen in a Box

No. 2818 I—Two Blades, 3 in. Imitation Smoked Pearl Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished ..... Per Dozen $9.00

One-half Dozen in a Box

No. 2618—Two Blades, 3 in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished Per Dozen $9 00

One-half Dozen in a Box

No. 2610—Two Blades, 3⅛ in. Stag Handle, Brass Lined, Steel Bolster and Cap, German Silver Shield, Half Polished ..... Per Dozen $9.00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

No. 2602—Two Blades, 3½ in. Stag Handle, Brass Lined, Steel Bolster and Cap, German Silver Shield, Half Polished . . . . . Per Dozen $8.00

One-half Dozen in a Box

No. 2011—Two Blades, 3½ in. German Silver Handle, Brass Lined, German Silver Bolster, Half Polished . . . . . Per Dozen $9 00

One-half Dozen in a Box

No. 2642—Two Blades, 3⅝ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished Per Dozen $10.00

One-half Dozen in a Box

No. 2612—Two Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished . . . . . Per Dozen $8 50

One-half Dozen in a Box

No. 2635—Two Blades, 3⅝ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished . . . . . Per Dozen $10.00

One-half Dozen in a Box

No. 2611—Two Blades, 3½ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished . . . . . Per Dozen $9 00

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 2613—Two Blades, 3¾ in. Stag Handle, Brass Lined, German Silver Bolster and Shield, Glazed $9 00

One-half Dozen in a Box

Per Dozen

No. 2645—Two Blades, 3¾ in. Stag Handle, Brass Lined, Steel Bolster and Cap, German Silver Shield, Half Polished $11.00

One-half Dozen in a Box

Per Dozen

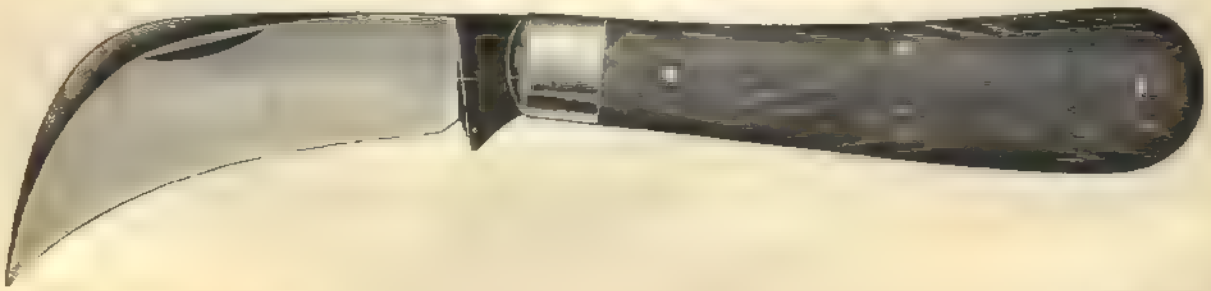
No. 2648½—Two Blades, 4½ in. Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished $12 00

One-half Dozen in a Box

Per Dozen

No. 1649—Hunting, One Blade, 4⅝ in. Stag Handle, Lock Back, Steel Lined, Steel Bolster, Half Polished . . $13.00

One-half Dozen in a Box



Per Dozen

No. 1360—Pruning, One Blade, 4 in. Rosewood Handle, Steel Lined, Steel Bolster, Glazed $10 00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 2631—Physician's, Two Blades 3 in Stag Handle Brass Lined, German Silver Bolster, Seal End and Shield, Half Polished $9 00

One-half Dozen in a Box

No 2736

Per Dozen

No. 2736—Physician's Knife, Two Blades, 3⅛ in Pearl Handle, Brass Lined, German Silver Bolster and Cap, Half Polished $24 00

No 2636—Physician's Knife, Two Blades, 3¼ in Stag Handle, Brass Lined German Silver Bolster and Cap, Half Polished 10 00

One-half Dozen in a Box

Per Dozen

No. 2644—Physician's, Two Blades, 3¾ in Stag Handle, Brass Lined, German Silver Bolster, Cap and Shield, Half Polished $11 00

One-half Dozen in a Box

Per Dozen

No. 1816—Corn Knife, One Blade, 3⅛ in. White Handle, Brass Lined, Full Polished $9 00

One-half Dozen in a Box

Per Dozen

No. 2841—Office, Two Blades, 3⅛ in. White Handle, Brass Lined, Half Polished $11.00

One-half Dozen in a Box

Per Dozen

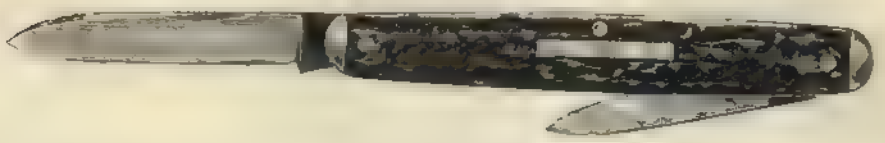
No. 4563 Four Blades, 3½ in. Genuine Stag Handle German Silver Lined Milled Tips and Shield, Full Polished $32 00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL



No. 2008—Two Blades, 3⅞ in. Stag Handle, Brass Lined, German Silver Tips and Shield, Half Polished..... Per Dozen $8.50

One-half Dozen in a Box

No. 2819W—Two Blades, 3⅛ in. White Celluloid Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished ..... Per Dozen $9.00

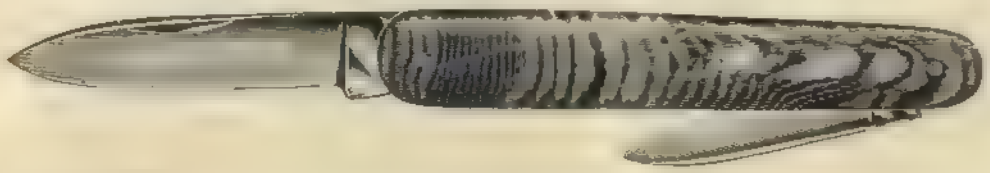
One-half Dozen in a Box

No. 2022—Two Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished.. Per Dozen $8.50

One-half Dozen in a Box

No. 2023—Two Blades, 3⅜ in. Stag Handle, Brass Lined, German Silver Bolster and Shield, Half Polished Per Dozen $8.50

One-half Dozen in a Box



No 2805

No. 2805 —Two Blades, 3⅛ in Imitation Smoked Pearl Handle, Brass Lined, Half Polished..... Per Dozen $8.00
No. 2805W—Two Blades, 3¼ in. White Celluloid Handle, Brass Lined, Polished..... 8.00
No. 2605 —Two Blades, 3⅛ in. Stag Handle, Brass Lined, Half Polished 7.50

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 2833—Two Blades, 3⅛ in. Imitation Smoked Pearl Handle, Brass Lined, German Silver Tips and Shield, Half Polished $10.00

One Half Dozen in a Box

Per Dozen

No. 2617—Two Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished $9.00

One-half Dozen in a Box

No. 2803

Per Dozen

No. 2803—Two Blades, 3 in. Imitation Smoked Pearl Handle, Brass Lined, Steel Bolsters, Half Polished . $9.00
No. 2603—Two Blades, 3 in. Stag Handle, Brass Lined, Steel Bolsters, Half Polished $8.00

One-half Dozen in a Box

Per Dozen

No. 2607—Two Blades, 3¼ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished $8.50

One-half Dozen in a Box

Per Dozen

No. 3651—Three Blades, 3 in. Stag Handle, Brass Lined, German Silver Tips and Shield, Half Polished $17.00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 4562 -Four Blades, 3½ in Genuine Stag Handle, German Silver Lined, Milled Bolster Full Polished $27 00

One-half Dozen in a Box

Per Dozen

No. 2625 Two Blades, 3½ in Stag Handle, Brass Lined, German Silver Bolsters, Half Polished ... $9 00

One-half Dozen in a Box

Per Dozen

No. 2626 —Two Blades, 3⅜ in Stag Handle, Brass Lined German Silver Bolsters, Half Polished .. $9 00

One-half Dozen in a Box

Per Dozen

No. 4561—Four Blades, 3¼ in Genuine Stag Handle, German Silver Lined Milled Bolsters and Shields, Full Polished $27.00

One-half Dozen in a Box

Per Dozen

No. 2624—Two Blades, 3⅜ in Stag Handle Brass Lined, German Silver Bolsters and Shield, Half Polished. $9 00

One-half Dozen in a Box

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 3856 Three Blades, 3¾ in. Imitation Smoked Pearl Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished $16.00

One-half Dozen in a Box

Per Dozen

No. 3855—Three Blades, 3⅝ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished . $16.00

One-half Dozen in a Box

Per Dozen

No. 4658—Four Blades, 3⅛ in. Stag Handle, Brass Lined, Steel Bolsters, Half Polished $15.00

One-half Dozen in a Box

Per Dozen

No. 2637—Two Blades, 3⅝ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished . $9 50

One-half Dozen in a Box

Per Dozen

No. 2627—Two Blades, 3¾ in. Stag Handle, Steel Lined, Steel Bolsters, Half Polished $8 50

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

POCKET KNIVES

Cuts Full Size

SILVER STEEL

Per Dozen

No. 2632¼—Two Blades, 3½ in Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished $9 50

One-half Dozen in a Box

Per Dozen

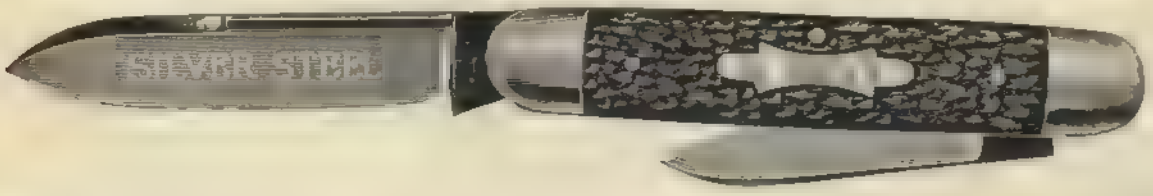
No. 3640—Three Blades, 3¾ in. Stag Handle, Brass Lined German Silver Bolsters and Shield, Half Polished .. $18 00

One-half Dozen in a Box

Per Dozen

No. 2640—Two Blades, 3⅝ in Stag Handle, Brass Lined, German Silver Bolster and Shield, Half Polished.. $11.00

One-half Dozen in a Box



Per Dozen

No. 2634—Two Blades, 3¾ in. Stag Handle, Brass Lined, German Silver Bolster and Shield, Half Polished.... $9.50

One-half Dozen in a Box

Per Dozen

No. 3650—Cattle Knife, Three Blades, 3⅝ in. Stag Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished $17 00

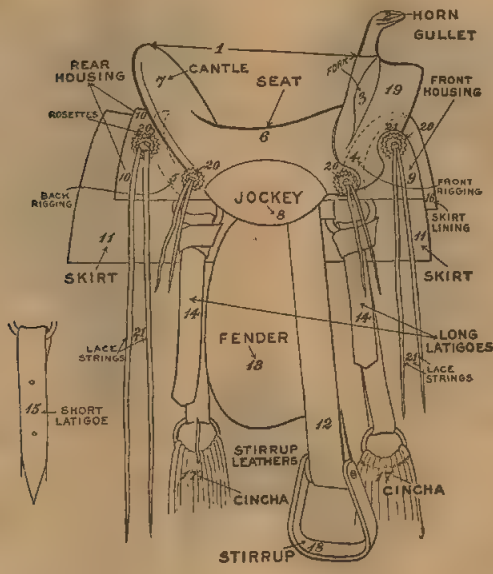
No. 3750—Cattle Knife, Three Blades, 3⅝ in Pearl Handle, Brass Lined, German Silver Bolsters and Shield, Half Polished 32 00

One-half Dozen in a Box

SADDLES

*NORLEIGH DIAMOND

DIAGRAMS AND NAMES OF THE DIFFERENT PARTS OF A FULL RIGGED STOCK SADDLE



1—Proper Method of Measuring a Saddle
2—Horn
3—Fork.
4—Front Rigging
5—Back Rigging
6 Seat
7 —Cantle
8—Jockey
9 Front Housing
10—Rear Housing
11 Skirt
12—Stirrup Leather
13—Fender
14 Long Latigoe
15—Short Latigoe or Off Billet
16 -Skirt Lining
17—Cinchas or Girths
18—Stirrups
19 Gullet
20 Rosettes or Cinchas.
21 Lace Strings

TINNERS HAND SNIPS

P. S. & W., TROJAN

For Curves and Irregular Shapes; with Cut Sheet Metal, Punch and Mitre Lap, Turn Seams, etc. Just the Thing for Scroll and Cornice Work

Per Pair

No. 79—8 inch Cut; Length Over All 12¾ inches; Forged Steel; Japanned Handles; Weight per Pair 1¼ lbs. $5.40 7.00

One Pair in a Box

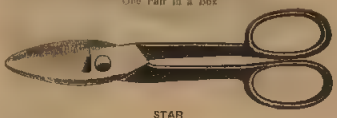
*ALLCUT

A Convenient Snip for Tool Kits. Fitted Extra Long Ring Lets Shears Hang on Cut Paper, Pantry, Netting, Tin, Sheet Metals and Heavy Fabrics Equally Well. Adapted to Use of Tinners, Plumbers, Electricians and Home Mechanics

Per Dozen Pairs

No. 922 2¾ inch Cut, Length Over All 10¼ inches; Steel Laid Blades; Highly Finished, Malleable Iron Handles; Black Japanned; Weight per Pair 1 lb. $10 00

One Pair in a Box



STAR

Cast Iron, Ground Blades, Japanned Handles

Per Dozen Pairs

No. 2—2½ inch Cut; Length Over All 10 inches; Weight per Dozen Pairs 13 lbs..... $8 00

No. 3—3 inch Cut; Length Over All 12 inches; Weight per Dozen Pairs 17 lbs..... 9 00

Half Dozen Pairs in a Box

TINNERS BENCH SHEARS

P. S. & W.

Always Furnished Right Hand Cut, that is the Lower Blade is on the Right Side of Shears

Size	PSW6	PSW5	PSW4	PSW3	PSW2	PSW1	PSW0	PSW00
Length of Cut, Inches	6	7	8	8½	8¾	9	10½	12
Over Length, Inches	20	17	20	21	21	22	24	28
No. of Iron Gauge Now	20	20	20	18	17	16	15	16
Weight per Pair, Lbs	8	9½	12	15	18	20	28	36
Per Pair	$ 5 50	$ 6 50	$ 7 00	$ 9 00	$ 7 00	$ 8 00	$ 12 00	$ 13 50
	6 00	7 80	10 20	12 00	13 80	15 60	23 40	26 40

Loose

✣ ELBOW BENCH SHEARS

Per Pair

No. 13—1 inch Cut; will Cut No. 18 Iron; Weight per Pair 25 lbs. ..... $10 20 $ 25

No. 23—Extra Heavy; 6 inch Cut, will Cut No. 14 Iron; Weight per Pair 25 lbs. 23 40 12 00

No. 33—Double Extra Heavy; 7½ inch Cut, will Cut No. 12 Iron, Weight per Pair 47 lbs. 50 00 25 00

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished By Shipping Direct from Factory

TINNERS TOOLS

BERRIDGE PIPE SNIPS

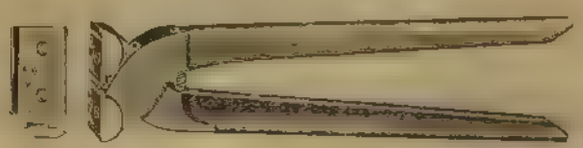
For Cutting and Crimping Stove Pipe; Adapted for Round or Circular Work

	Each
No 28—2 inch Cast Steel Blade; Japanned Iron Handles; Length Over All 13 inches; Weight Each 2 ¼ lbs	$5 50

Loose

NIPPERS

*DIAMOND EDGE



REVERSIBLE

A Powerful Tool for Cutting Nails, Wire, Music Wire, etc. Will Stand Hard Usage; Tool Steel Jaws are Dovetailed into Head and are Reversible; Dead Black Forge Finish Handles and Head; Polished Steel Cutters.

Nos	DE6	DE8	DE10	DE12	DE14
Length, Inches	6	8	10	12	14
Weight per Dozen, Lbs	9	12	24	30	47
Each	$1 70	1 90	2 20	2 50	2 75

Two in a Box

EXTRA CUTTERS

Nos	DEX6	DEX8	DEX10	DEX12	DEX14
For Nippers, No	DE6	DE8	DE10	DE12	DE14
Weight per Pair, Ounces	2	2½		4	5
Per Pair	$0 60	70	.90	1 00	1 20

TINNERS TOOLS

PECK, STOW & WILCOX

BENCH PLATES

Cast Iron, Polished; with Socket Holes to Receive All Stakes, Swedges, Formers, etc.

		Each
No. 2—30x8 in.; Weight 200 lbs.	$5 50	5 00
No. 1—37x8 in.; Weight 50 lbs.	9 60	5 00
✣ No. 0—48x12 in.; Weight 94 lbs.	16.40	9.00

Loose

RAISING HAMMERS

With Hickory Handle

For All Kinds of Raised Work; Cast Steel, Japanned; Polished Faces.

	Each
✣ No. 4RH—1¼ pounds; 6⅜x1½ inch Head	$1 80 0 85
No. 3RH—1 pounds; 6¼x1¼ inch Head	2 65 1 45
No. 2RH—¾ pounds; 5¾x1⅛ inch Head	4.00 1 85
✣ No. 1RH—5 pounds; 7¾x2⅛ inch Head	4 80 2 35

Per Dozen

✣ Extra Handles for Raising Hammers; Hickory, Plain Finish. 2 00 1 25

Loose

SCRATCH AWLS

Per Dozen

No. PS1—Solid Steel, with Ring; Twisted Shank, Length 8 inches, Weight per Dozen 1 lb..... $2.00 1.25

One Dozen in a Box

WIRE CHISELS

For Cutting Various Sizes of Sheet Metal; Steel, Length 5in

Width, Inch	¼	⅜	½	⅝	¾	✣⅞	1
Each	$0 08	09	10	11	12	13	14
	10	10	10	15	15	15	15

Width, Inches	✣1⅛	1¼	✣1⅜	1½	✣1¾	✣2
Each	$0 15	17	18	20	22	25
	15	20	20	20	25	25

One Dozen in a Box; Average Weight Each ½ to 2 ozs.

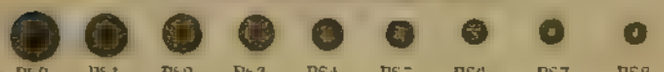
LANTERN CHISELS

For Cutting Holes in Any Kind of Circular Work, Like Eave Troughs etc.; Cast Steel, Japanned; Polished Point.

	Each
½ inch Wide, 4¼ inches Long; Weight Each 4 ozs	$0 15 12
1 inch Wide, 5⅝ inches Long; Weight Each 6 ozs	.20 .20

Loose

Two-Thirds Size of Holes



Nos. PS0 PS1 PS2 PS3 PS4 PS5 PS6 PS7 PS8

SOLID PUNCHES

Nos	PS0	PS1	PS2	PS3	PS4	PS5	PS6	PS7	PS8
Size in 32nds	9	8	7	6	5	4	3	2	1
Wt. Doz., Lbs	2	1⅜	1¼	1¼	1¼	1⅛	1⅛	1	¾

Per Dozen

All Sizes; Cast Steel, Japanned 4½ inches Long $1.80 1 44

One Dozen in a Box

PRICK PUNCHES

Per Dozen

No. PSP—Cast Steel, Japanned; Square Shank; Length 5 inches, Weight per Dozen 1½ lbs..... $1.80 1.44

One Dozen in a Box

HOLLOW PUNCHES

Japanned, Polished Edges

Average Length 5½ inches

Forged Steel

Sizes from ¼ inch to 1½ inches, Inclusive

Size, Inches	¼	⅜	½	⅝	¾	⅞	1	1⅛	1¼	1⅜	1½
Weight Each, Lbs	⅛	¼	¼	⅜	½	⅝	¾	⅞	1	1⅛	1¼
Each	$0 25	32	38	50	65	75	85	1 00	1 15	1 25	1 40
	40	50	60	75	85	1 10	1 30	1 45	1 50	1 80	2 00

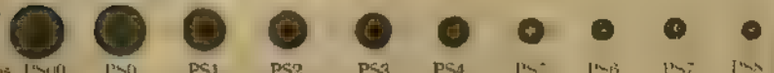
Wrought Shank

Sizes 1¾ and 2 inches

Size, Inches	1⅝	1¾	1⅞	2
Weight Each, Lbs	1⅝	1¾	1⅞	2
Each	$1 75	1 88	2 00	2 50
	2 15	2 40	2 60	3 60

Loose

Two Thirds Size of Holes



Nos. PS00 PS0 PS1 PS2 PS3 PS4 PS5 PS6 PS7 PS8

RIVET SETS AND HEADERS

Best Cast Steel; Gun Metal Finish; Perfectly Tempered

Nos	PS00	PS0	PS1	PS2	PS3	PS4	PS5	PS6	PS7	PS8
For Iron Rivets, Lbs.	14	10 &12	8	6	4 & 5	2½ & 3	1¾ & 2	1½	1¼	10 & 12
For Cop Rivets, Nos.	..	5	6	7	8	9	10 & 11	12	13	14
Wt. Each, Ozs.	14	12	9	8	7	6	5	4	4	3
Each	$0 75	75	63	.63	.50	.50	.37	.37	.32	.32
	85	85	.75	.75	.60	.60	.55	.55	.40	.40

Half Dozen in a Box

HAND GROOVERS

Forged Steel, Natural Finish, Round Shank

Nos	00	0	1	2	3
Groove, In	1/16	1/16	1/16	3/32	3/32
Wt. Each, Lbs	1⅝	1¼	1	1⅛	1
Each	$0 75	75	.63	.63	.50
	1 10	1 10	1 00	1 00	75

Nos.	4	5	✣6	✣7	✣8
Groove, In	1/4	1/4	1/8	1/8	1/8
Wt. Each, Lbs	⅞	¾	⅝	½	⅜
Each	$0 50	37	37	.25	25
	75	.60	60	.40	40

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

PECK, STOW & WILCOX STAKES

Wrought Iron with Steel Faces

SQUARE HEAD

Adapted for all Square Work

	Each
No. CS—Common Square; Size of Face 4⅛x2⅝ in; Weight Each 11 lbs.	$5.50 3 00
✣**No. SS**—Small Square; Size of Face 2⅜x1½ in; Weight Each 3 lbs	3.75 2.00
✣**No. LS**—Large Square; Size of Face 5½x3½ in.; Weight Each 14 lbs	12 85 7.00

Loose

ROUND HEAD

Used for Light Work, Riveting Handles on Covers, etc

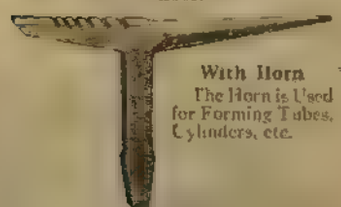
	Each
No. RH—Diameter of Head 3⅛ inches; Length Over All 12⅜ inches; Weight Each 9½ lbs.	$2.25 1 25

Loose

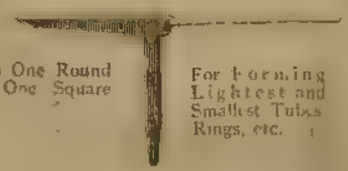
HATCHET

For Forming Seams on the Edges of a Sheet; Generally Used where Folder is Inconvenient

Nos	✣1H	2H	3H	4H	5H	✣6H
Blade, In	16	14½	13	11	9	7
Weight, Lbs.	14	12	9	6	4	3
Each	$5 00	4 25	3 50	2 75	2 25	75
	8 25	7 80	6 50	5 00	4 20	3 25

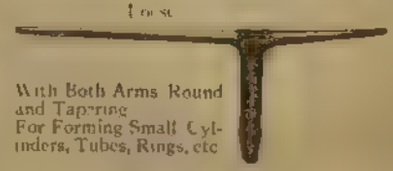


With Horn
The Horn is Used for Forming Tubes, Cylinders, etc.



With One Round and One Square Arm

For Forming Lightest and Smallest Tubes Rings, etc.



With Both Arms Round and Tapering
For Forming Small Cylinders, Tubes, Rings, etc

CREASING

	Each
No. CH—Length of Horn 9½ in., of Flat End 6½ in; Weight Each 12½ lbs	$8.30 4.50

Loose

NEEDLE CASE

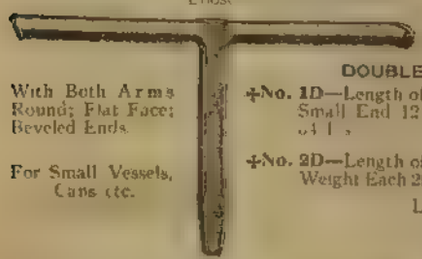
	Each
No. NC—Length of Horn 10⅛ in., of Flat End 8 in.; Weight Each 4 lbs	$4 20 2 25

Loose

CANDLE MOULD

	Each
No. CM—Length of Small End 18 in., of Horn 8½ in; Weight Each 6½ lbs	$5 00 2 75

Loose



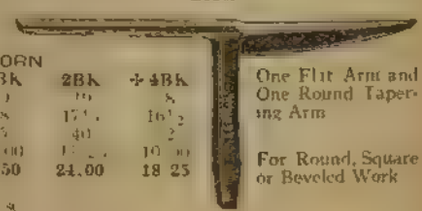
With Both Arms Round; Flat Face; Beveled Ends.

For Small Vessels, Cans etc.

DOUBLE SEAMING

	Each
✣**No. 1D**—Length of Large End 17 in., Small End 12 in.; Weight Each 24 lbs	$16 40 9 00
✣**No. 2D**—Length of Each End 11 in.; Weight Each 20 lbs	14.65 8 00

Loose



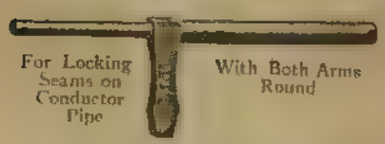
One Flat Arm and One Round Tapering Arm

For Round, Square or Beveled Work

BEAKHORN

Nos	✣1BK	2BK	✣4BK
Small End, In	9	10	8
Round Arm, In	18	17½	16½
Weight, Lbs	45	40	2
Each	$15 00	13 50	10 00
	27 50	24.00	18 25

Loose



For Locking Seams on Conductor Pipe

With Both Arms Round

CONDUCTOR

	Each
No. 1C—Length of Large End 15 in., of Small End 11½ in.; Weight Each 35 lbs	$7.30 4 00
✣**No. 2C**—Length of Large End 14 in., of Small End 10 in.; Weight Each 25 lbs.	5.50 3 00

Loose

BLOWHORN

With One Long Tapering Arm and One Oval Faced Tapering Arm.

The Long Tapering Arm for Forming Tubes, Cylinders and Similar Articles; the Short Arm for Forming Covers, etc.

	Each
No. CBH—Length of Small End 17⅜ in., of Large End 9 in; Weight 19 lbs.	$9.00 5 00

Loose

✣UNIVERSAL STAKE HOLDERS AND STAKES

Stakes Can be Used in any Desired Position, Without Marring the Bench.

	Per Set
✣**Complete Set** as Listed Below, with Stake Holder; Weight per Set 139 lbs	$76.00 37 25

One Set in a Wood Box

✣STAKES FOR ABOVE SETS	Each
✣**Stake Holder**; Wt. 21 lbs.	$9 00 4.50
✣**Beakhorn**; Wt. 47 lbs.	23.50 11.00
✣**Blowhorn**; Wt. 10 lbs.	7.75 3 75
✣**Creasing**; Weight 8 lbs.	7.20 3 50
✣**Dbl. Seaming**; Wt. 23 lbs	13.25 6 50
✣**Conductor**; Wt. 16 lbs	8 00 4 00
✣**Candle Mould**; Wt. 4½ lbs	4 65 2 25
✣**Needle Case**; Wt. 4 lbs	3.60 1.75

✣EXTRA PARTS	Each
✣**Large End** for Beakhorn; Weight 31 lbs	$12.35 6 00
✣**Small End** for Beakhorn; Weight 16 lbs.	10.30 5.00
✣**Flat End** for Conductor; Weight 16 lbs	4.70 2.25
✣**Round End** for Conductor; Weight 10 lbs	3.60 1.75
✣**Screw and Bolt** for Stakeholder; Weight 9 ozs.	1.10 .50
✣**Nut for Stakeholder**; Wt 10 ozs.	.60 .30

Loose

DOUBLE SEAMING

With Four Different Shaped Heads

	Per Set
No. DSS—Set Consists of a [illegible] Square Arm, One 6 in. Round Head with Flat Face, One 5¾x4 in Oblong Head with Round Face, One 5x4¾ in. Square Head with Flat Face, and One 9½x3 in Oblong Head with Oval Face; Weight per Set 85 lbs.	$16.40 9.00

One Set in a Wood Box

✣EXTRA HEADS

	Each
✣For No DSS Double Seaming Stake Heads Weigh from 11 to 18 lbs.	$2.75 1.50

In Ordering Extra Heads be sure to Specify the Style Wanted.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

P. S. & W. MANDREL STAKES

With Oval Face on One Side, Flat Face on Reverse Side; Lengths Given Do Not Include Head

		Each	
✣ No. 00M	60 in.; Wt. 128 lbs.	$18.00	10.00
No. 0M	—40 in.; Wt. 87 lbs.	11 00	6.00
No. 1M	—34 in., Wt. 44 lbs.	9.10	5.00
✣ No. 2M	—30 in.; Wt. 37 lbs.	7.30	4 00
✣ No. 3M	—27 in.; Wt. 31 lbs.	5.50	3.00

Loose

P. S. & W. HOLLOW MANDRELS

Secured to Bench in Such a Manner that it Can be Swung to any Desired Position and Fastened.

Nos.	11HM	✣ 12HM	✣ 13HM
Length, Inches	40	42	48
Oval Part, Inches	32	32	36
Flat Part, Inches	0	9½	15
Weight Each, Lbs.	45	190	300
Each	$5.50	16.00	25 00
	10 00	29 25	45 50

	Each
✣ No. HMF—Hollow Mandrel Fasteners	$0.60
Loose	1.10

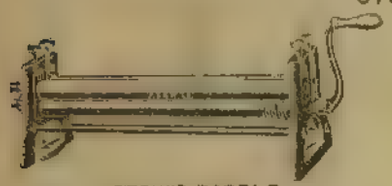
ADAMS STOVE PIPE MANDRELS

With Heavy Band Clamp for Attaching to Bench. This Mandrel will be Found Very Handy, Especially in Small Shops

	Each
No. A—Cast Iron, Polished Face; Length Over All 36 inches; Width 4½ in.; Wt. Each 40 lbs.	$7.50
No. A2—Unpolished, Otherwise Same as Above; Wt. Each 40 lbs.	5.50

One in a Wood Box

STOVE AND TIN PIPE FORMING MACHINES



STOW'S PATENT

Turned Steel Rolls, Smooth and Free From Imperfections; Cast Iron Frame, Japanned,

FOR STOVE PIPE

Nos.	1	2
Diam. Rolls, Inches	2	1¾
Length Rolls, Inches	30	30
Weight Each, Lbs	130	105
Each	$19.00	18 00
	36.50	34 50

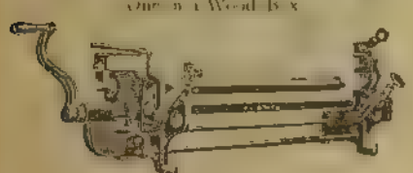
✣ FOR TIN PIPE

Nos.	31	32	35	36
Diam. Rolls, Inches	1¾	1½	1	2
Length Rolls, Inches	20	16	12	12
Weight Each, Lbs.	54	46	34	42
Each	$10.00	9.00	12 00	16 00
	18 00	16 00	21 50	28 80

✣ FOR CANS

Nos.	0	0
Diam. Rolls, Inches	2	[illegible]
Length Rolls, Inches	37	[illegible]
Weight Each, Lbs.	80	[illegible]
Each	$4 00	[illegible]
	43 00	16 00

One in a Wood Box



PATENT SLIP ROLL FORMERS

Back Geared; Compensating Gears

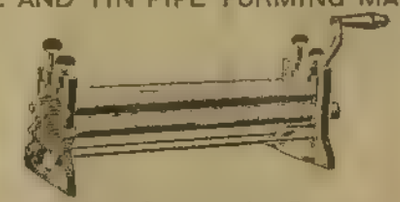
For Heavy Work; Two Revolutions of the Crank to One Revolution of the Rolls; Small Work Can be Taken from the End After it is Formed.

	Each
✣ No. 01—Diameter of Rolls 2 inches; Length 30 inches; Weight Each 154 lbs.	$60.00 35.00
NOTE—Above Machine, with Legs: Additional, Each.	12 00 7.00

One in a Box

✣ Pulley—12x4 inches to Make Power Machine of Above Former; Weight Each 15 lbs.	13.60 8.00

Loose



With Compensating Gears

Gears Run Smoothly, Regardless of Thickness of Metal, Without Danger of Slipping or Breaking, Cylinders Can be Formed from DXXX Tin as Small as 2¼ inches, and from X Tin as Small as 2¼ inches Diameter.

FOR STOVE PIPE

Nos.	11	12	✣ 13
Diam. Rolls, Inches	1¾	2	2
Length Rolls, Inches	30	30	37
Weight Each, Lbs.	100	123	140
Each	$18 00	20 00	26 00
	31 80	34 00	44 50

✣ FOR TIN PIPE

Nos.	21	22
Diam. Rolls, Inches	1¾	1¼
Length Rolls, Inches	16	20
Weight Each, Lbs.	43	53
Each	$ 9 00	10 00
	15 50	17 15

One in a Wood Box

BEADING MACHINES—STOW'S PATENT

With Interchangeable Parts

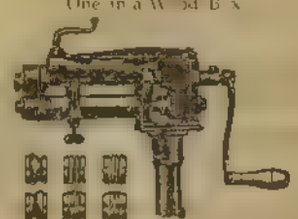
Has Gauge Rest in Front on which the Article rests while the Bead is Formed, each Machine is equipped with 3 Pairs of Rollers and Rotary Stand, will Bead 20 Gauge Iron

Nos.	✣ 1	✣ 2	✣ 3
Rollers, Inches	13	10	7½
Ogee Bead, inches	1	¾	¾
Triple Bead, inches	¾	½	¾
Single Bead, inches	⅝	½	5-16
Weight Each, lbs.	117	110	81
Each	$31 25	31 25	26 2
	66 00	64 00	54 00

One in a Box

✣ EXTRA PARTS

✣ For Machines, Nos.	1	2	3
✣ Rollers, per Pair	$7 20	7.20	6 25
✣ Crimping Rolls, per Pr.	12 35	12 35	10 30
✣ Stands, Each	2 65	2 65	2 55
✣ Guide Rests, Each	2.65	2 65	2 55
✣ Cranks, Each	1 10	1 10	1 10
✣ Crank Screws, Each	1 10	1 10	1 10



One in a Wood Box

BEADING MACHINES—STOW'S PATENT

With Interchangeable Parts

Will Bead Material up to and Including 26 Gauge.

	Each
No. 4—Length 6 inches; Size of Beads: Ogee ⅜ inch, Triple ⅜ inch, Triple Coffee Pot ½ inch; Single Bead, Weight Each 55 lbs.	$40.00 19 75
✣ No. 5—Length 4 inches; For Tin, Size of Beads: Astragal ⅜ inch; Ogee ⅜ inch; Triple Coffee Pot ⅜ inch; Triple Coffee Pot, Fine, ⅜ inch; Single Bead ⅛ inch; Weight Each 20 lbs.	34.45 16.75

✣ EXTRA PARTS

✣ For Machines, Nos.	4	5
✣ Rollers, per Pair	$4 20	2.45
✣ Crimping Rolls, per Pr.	7.20	3.85
✣ Stands, Each	2.00	1.90
✣ Guide Rests, Each	1.55	1.45
✣ Cap and Crank Screw, Each	4.20	3.85

Loose

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Southington, Conn

TINNERS TOOLS

PECK, STOW & WILCOX

ROOFING FOLDERS

Solid Oak, Natural Finish; Steel Edge; Iron Carrying Handle. For Flat Seam Tin Roofing.

ADJUSTABLE, WITH GAUGE

	Each
✢ **No. 1RFA**—Adjustable to 20 or 30 inches; Wt. Each 15 lbs.	$11.50 6 00

IMPROVED, WITH GAUGE

✢ **No. 1RF20**—20 inches Long; Weight Each 11 lbs	6.70 3 50
No. 1RF30—30 inches Long; Weight Each 15 lbs.	9 60 5 00

COMMON, WITHOUT GAUGE

✢ **No. RF14**—14 inches Long; Weight Each 7 lbs.	4 80 2 50
✢ **No. RF20**—20 inches Long; Weight Each 9 lbs.	4 80 2 50
No. RF30—30 inches Long; Weight Each 12 lbs.	6.70 3 50

Loose

✢ EXTRA STEEL BLADES

For Roofing Folders	Each
✢ **For 20 inch Folder**; Weight Each 2⅝ lbs.	$1.95 1.00
✢ **For 30 inch Folder**; Weight Each 3¾ lbs	2.85 1 50

Loose

Cut Shows One Pair. A Set Consists of Two Pairs.

ROOFING DOUBLE SEAMERS

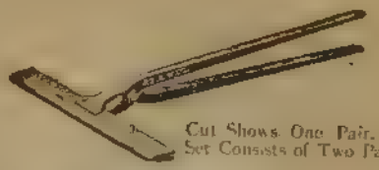
Used in Places where Seaming Tongs would be inconvenient.

Two Pairs to Match, Make One Set; Cast Steel, Japanned.

	Per Set of Two Pairs
No. RDS—Size of Faces 1x1¼ inches and 1¼x1½ inches; Weight per Set 10 lbs	$3 35 1 75

Loose

Single Pairs One Half Above Price



Cut Shows One Pair. A Set Consists of Two Pairs.

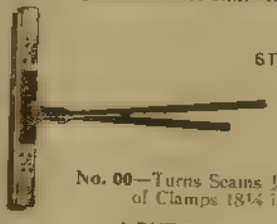
COMMON ROOFING TONGS

Used to Turn Seams and to Draw the Two Strips of Tin Together Before Cleating. Each Size Turns but One Size of Seam; Made of Steel, Japanned, 24 inches Long; 17 inch Clamps.

	Per Pair
No. RT1—Turns 1 inch Seams	$5.80 3 00
No. RT1¼—Turns 1¼ inch Seams	5.80 3 00
No. RT1½—Turns 1½ inch Seams	5 80 3 00

Average Weight per Pair 9 lbs.

Loose



STOW'S IMPROVED ROOFING TONGS

These Tongs are Adjustable—a Single Pair will Turn Five Different Widths of Seams; they are Not, therefore, Sold in Sets; Made of Steel, Japanned

	Per Pair
No. 00—Turns Seams ½, ¾, 1, 1¼ and 1½ inches; Length 25½ inches; Length of Clamps 18¼ inches; Weight per Pair 8½ lbs.	$7.25 4 00

✢ EXTRA PARTS FOR STOW'S IMPROVED ROOFING TONGS

	Each
✢ **Extra Blades** for Above, Weight Each [illegible]	$2.75 1 50
✢ **Extra Bolts** for Above, Weight Each [illegible]	.45 25
✢ **Extra Screws** for Above; Weight Each [illegible] oz	.30 15

Loose

REESE PATENT ROOFING TONGS

With Adjustable and Removable Gauge, Suitable for Edging and Bending any Kind of Sheet Metal up to 22 Gauge; Steel Clamps, Japanned; Adjusted by Thumb Screw and Sliding Gauge.

	Per Pair
No. 0—Adjustable to Turn Edges from ⅛ to 10 inches; Length 36 inches; Width of Clamps 14 inches; Weight per Pair 11¾ lbs.	$16.75 13 00

Loose

GUTTER TONGS

For Turning Up Gutter, etc. Steel Clamps. Malleable Iron Handles, Japanned. Suitable for Iron or Steel up to 22 Gauge

	Per Pair
No. GT Length 37 inches, Width of Clamps 13 inches; Weight per pair 10 lbs.	$9 50 5 00

Loose

BURRITT'S DOUBLE SEAMERS

Japanned Malleable Iron, Hollow Tubed Iron Handles and Malleable D Handle. With Double Seam Hips and Ridges, can be used by either Hand or Foot Power. When Shipped they are fitted for IC Tin

	Per Set 2 Pairs
No. BRDSC—With Gauge; to follow 1 and 1¼ inch Tongs, forming ¾ inch Locks. Length Over all 30 inches, Width 15 in Size of Face [illegible] to 2 in. Weight 21 lbs.	$39 50 30 00
No. BRDSW—With [illegible] inch Tongs, forming 1 inch Locks. Length Over all 30¼ inches, Width [illegible] Size of [illegible] inches; Weight Each 40 lbs.	$39 50 30 00

GUTTER BEADERS

For Turning Beads on Eave Trough, Miters, etc; Iron Bottom, with Enclosed Steel Rod.

	Each
✢ **No. 12**—Length 15 inches; Weight Each 6 lbs	$6 50 3 50
✢ **No. 11**—Length 20 inches; Weight Each 11 lbs	7 30 4 00
No. 02½B—Length 30 inches; Diameter of Rod ½ inch, Weight Each 18 lbs.	11.00 6 00
No. 02⅝B—Length 30 inches; Diameter of Rod ⅝ inch; Weight Each 18½ lbs.	11.00 6 00
✢ **No. 01**—Length 42 inches; Weight Each 25 lbs.	16 00 9 00
✢ **No. A1**—Length 60 inches; Wt. Each 90 lbs.	36.50 20 00
✢ **No. A2**—Length 96 inches; Wt. Each 160 lbs	54 50 30 00
✢ **No. A3**—Length 120 inches, Wt. Each 200 lbs.	73 00 40 00

Diameter of Rod Wanted Must Invariably be Given, or Orders Cannot be Filled.

One in a Wood Box

GUTTER RODS

For Gutter Beaders Shown at the Left, Made of Steel

	Each
✢ **No 12**—Length [illegible] inches, Diameter [illegible] to ⅝ inch; Average Weight Each 1¼ lbs.	$3 25 1 75
✢ **No 11**—Length [illegible] inches, Diameter ⅜ to ⅝ inch; Average Weight Each [illegible] lbs.	3.70 2 00
No. 02½—Length 30 inches, Diameter ½ inch; Weight Each 4¼ lbs.	5.50 3 00
✢ **No. 02⅝**—Length 30 inches, Diameter ⅝ inch, Weight Each 4¼ lbs.	5.50 3 00
✢ **No 01** Length 42 inches, Diameter ½ to ⅝ inch, Average Weight Each 8 lbs.	8 25 4 50
✢ **No. A1**—Length 60 inches, Diameter ⅝ to 1 inch; Average Weight Each 13 lbs.	14.40 8 00
✢ **No. A2**—Length 96 inches, Diameter ⅝ to 1 inch; Average Weight Each 20 lbs.	29.25 16 00
✢ **No. A3**—Length 120 inches, Diameter ⅝ to 1 inch; Average Weight Each 30 lbs.	36.50 20.00

Diameter of Rod Wanted Must Invariably be Given, or Orders Cannot be Filled.

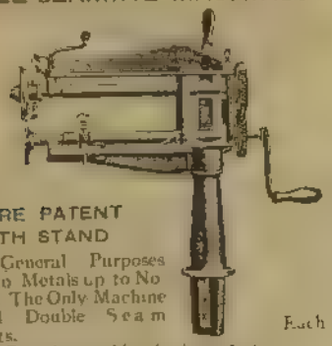
Loose

Items Marked ✢ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

PECK, STOW & WILCOX

DOUBLE SEAMING MACHINES



MOORE PATENT WITH STAND

For General Purposes Adapted to Metals up to No 26 Gauge. The Only Machine that will Double Seam Coffee Pots.

		Each
✣ No. 1—For Heavy Metal; Length 14 inches; Diameter of Face 5 inches; Weight Each 50 lbs.	$43 00	21 00
No. 2—For Common Work; Length 13 inches; Diameter of Face 4 inches; Weight Each 45 lbs.	39.00	19.00
✣ No. 3—For Coffee Pots; Length 10 inches; Diameter of Face 2¾ inches	32.75	16 00

One in a Wood Box

✣ EXTRA PARTS		Each
Faces; Weight Each 2 lbs.	$5.15	2 50
Stands; Weight Each 10 lbs	2.00	1 00

NOTE—No. 2 is the Best Size for the Average Shop; it will Take Wash Boilers and all Kinds of Shallow Vessels

This Machine is Gradually Superseding all Other Makes on Account of its Great Strength and Durability; Nos. 13 and 14 Have a Handle at Each End.

CHAMPION

Gauge is Adjustable to Form Locks from ⅛ to ½ inch Wide; the Fold is Completed Against a Round Steel Rod Insuring a Lock of Uniform Width the Entire Length, this Rod also Protects the Edge of the Frame and can be Replaced at Small Expense

		Each
No. 11—Length 33 inches; Adapted to Metals up to 26 Gauge; Weight Each 100 lbs.	$26 00	12 00
✣ No. 13—Length 42 inches; Adapted to Metals up to 24 Gauge; Weight Each 20 lbs	65.00	30 00
✣ No. 14—Length 42 inches; Adapted to Metals up to 22 Gauge; Weight Each 200 lbs	69.00	32 00

One in a Wood Box

TIN FOLDING MACHINES

P. S. & W. CO'S. NEW BAR FOLDERS

Will Turn Locks from ⅛ to 1 inch Wide, Adapted to Metals up to 22 Gauge; the Wedge which Raises and Lowers the Wing is Operated by a Rack and Pinion, the Gauge is Operated by a Drop Lever and its Movement is Instantaneous; it is Adjustable in Fractions of Inches; the Folding Bar is Adjusted by a Socket Wrench

		Each
✣ No. 252—Length 20 inches, Weight Each 90 lbs	$65 00	30 00
✣ No. 254—Length 30 inches; Weight Each 170 lbs	86 00	40 00

One in a Wood Box

✣ WITH SPRING ATTACHMENT

To Relieve Strain in Continuous Work

		Each
✣ No. 252½—Length 20 inches, Weight each 92 lbs.	$72 75	36 00
✣ No. 254½—Length 30 inches; Weight Each 172 lbs.	89 00	46 00

✣ ADJUSTABLE BAR FOLDERS STOW'S PATENT

Will Turn Locks from ⅛ to 1 inch Wide; Nos. 152 and 154 are Adapted to Metals up to 22 Gauge; No. 352 will Turn Locks on 20 Gauge Metals.

The Gauge is Moved by a Hand Wheel in the Center and Fastened by a Set Screw at Left End of Frame; the Movement of the Gauge is Instantaneous; it is Adjustable in Fractions of Inches.

		Each
✣ No. 152—Length 20 inches; Weight 80 lbs	$29.15	27 00
✣ No. 154—Length 30 inches; Weight 155 lbs	79.00	37.00
✣ No. 352—Extra Heavy; Length 22 in.; Wt. 225 lbs.	270 00	125,00

One in a Wood Box

SHEET IRON FOLDERS

This Machine will Turn Locks on any Length of Sheet; for this Purpose a Round Rod is Furnished and is so Placed that the Sheet is put into the Machine over it, when the Folding Bar is Turned a Slight Bend is Made the Entire Length of Sheet; the Operation Being Repeated till the Lock is Finished

WRIGHT IMPROVED

Gauge is Adjustable to Form Locks ½ and ⅝ inch Wide; Steel Strips are Furnished to Use Under the Plate for Turning Locks Wider than the Plate

		Each
No. 12—Length 30 inches; Adapted to Metals up to 24 Gauge, Weight Each 75 lbs	$30 00	14 00
✣ No. 17—Length 62 inches; Adapted to Metals up to 22 Gauge; Weight Each 175 lbs	109 00	55 00

One in a Wood Box

This Machine is Intended for Ordinary Work only, it Answers all General Purposes in the Average Shop.

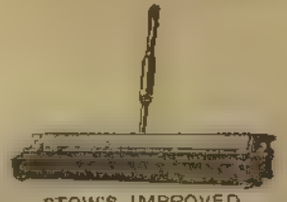
WRIGHT PATENT

Gauge is Adjustable to Form Locks ⅛ and ¼ inch Wide

		Each
✣ No. 00—Length 62 inches; Adapted to Metals up to 22 Gauge; Weight Each 140 lbs.	$108 00	50 00
No. 0—Length 42 inches; Adapted to Metals up to 22 Gauge; Weight Each 100 lbs.	43 20	20.00
✣ No. 1—Length 30 inches; Adapted to Metals up to 24 Gauge; Weight Each 75 lbs	26.00	12.00

One in a Wood Box

SHEET IRON FOLDERS



STOW'S IMPROVED

These Machines can Only be Used in Turning Flat Sheets.

		Each
Iron Bottom; Will Turn Locks from ⅛ to ⅝ inch Wide; the Gauge is Moved by Sliding Endwise and is Always on a Line Parallel with the Edge of the Folding Plate	$21.50	10.00
No. 10—Length 30 inches; Adapted to Metals up to 26 Gauge; Weight Each 58 lbs	39.00	18 00
✣ No. 15—Length 42 inches; Adapted to Metals up to 26 Gauge; Weight Each 175 lbs	54.00	25.00
✣ No. 20—Length 60 inches; Adapted to Metals up to 24 Gauge; Weight Each [illegible] lbs		

One in a Wood Box

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS' TOOLS

PECK, STOW & WILCOX

GROOVING MACHINES

With Square Supporting Bar. The Work is Always in Sight; Seams can be Formed Either on the Inside or Outside of Cylinder; may be Used on all Vessels not Less than 2 inches in Diameter; Adapted to Metal not Heavier than 22 Gauge

IMPROVED
With Three Grooving and One Flattening Rolls

	Each	Each
✣ **No. 110**—Length 20 inches; Size of Grooving Rolls ⅛, 3/16 and ¼ inch; Weight Each 95 lbs.	$30.75	13 50
No. 120—Length 30 inches; Size of Grooving Rolls 3/16, ¼ and 5/16 inch; Weight Each 110 lbs.	41 00	18 00

One in a Wood Box

NOTE.—When the Knob is Thrown Back to the Standard, the Grooving Roll is Lifted from the Lower Bar and can Easily be Released to Change the Rolls

✣ IMPROVED
With Following Roll

The Following Roll Kennedy's Patent Attachment is for Flattening the Seams (Is Seams Grooved and Flattened in One Operation. With Three Grooving and One Flattening Rolls.

	Each	Each
✣ **No. 210**—Length 30 inches; Size of Grooving Rolls ⅛, 3/16 and ¼ inch; will Groove Work up to 20 inches; Weight Each 105 lbs.	$39.00	18.00
✣ **No. 220**—Length 40 inches; Size of Grooving Rolls 3/16, ¼ and 5/16 inch; will Groove Work up to 30 inches; Weight Each 130 lbs.	49 50	23 00

One in a Wood Box

✣ STOW'S ENCASED GROOVERS

With Rotary Standard for Light Work; Adapted to Locking Seams on Metals not Heavier than 26 Gauge; Complete with Three Grooving Rolls, Sizes 3/16, 5/16 and ⅜ inch.

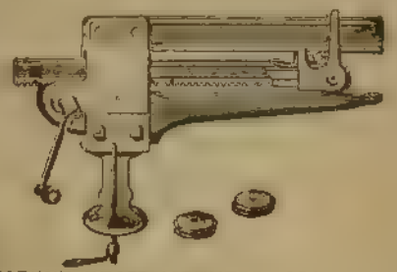
	Each	Each
✣ **No. 1**—Length 30 inches; Weight 75 lbs.	$27.75	13 50
✣ **No. 2**—Length 17 inches; Weight 64 lbs.	22.50	11 00

One in a Wood Box

✣ EXTRA PARTS FOR ABOVE

	Each	Each
Standards	$1.55	.75
Rollers (⅛, 3/16 or ¼ inch)	1 55	75
Groover Ratchet, with Brass Mountings, 10 lbs.	5 00	2 50
Groover Pinion	1.10	.50

Loose



PATENT BRASS MOUNTED GROOVERS

With Steel Bar and Milled Horn; Adapted to Locking Seams on Metals up to 24 Gauge; Complete with Three Grooving Rolls, Sizes ⅛, 3/16 and 7 32 inch.

	Each	Each
✣ **No. 01**—Length 20 inches; Weight 78 lbs.	$29 15	13 50
✣ **No. 02**—Length 17 inches; Weight 69 lbs.	24.00	11 00

One in a Wood Box

✣ EXTRA PARTS FOR ABOVE

	Each	Each
✣ **Standards**	$1 60	75
✣ **Rollers** (⅛, 3/16 or ¼ inch)	1.80	.75
✣ **Groover Ratchet,** with Brass Mountings, 10 lbs.	7.00	3 25
✣ **Groover Ratchet,** without Brass Mountings	4 80	2 25

Loose

ELBOW EDGING MACHINES

COLUMBIAN

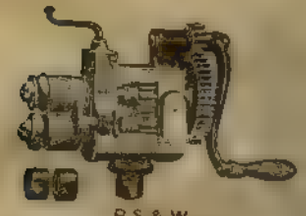
Saves One Third of the Time of the Operator Putting Elbows Together; Forms Both the Crease and Bead for Uniting the Two Sections.

	Each	Each
No. CEES—Machine with Standard; Weight Each 25 lbs	$22.70	10.50

One in a Wood Box

	Per Pair	Per Pair
✣ **Extra Rolls or Faces:** Weight per Pair 1 lb.	$5.40	2 50

STOVE PIPE CRIMPERS AND BEADERS

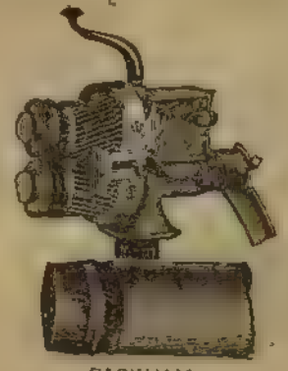


P S & W

Two Collars are Furnished to Substitute for Beading Rolls when Crimping Only is to be Done; Adapted to Metals up to 22 Gauge.

	Each	Each
No. 7—With Standard; Spiral Rolls; Weight 45 lbs.	$24.00	12 00
✣ **No 07**—With Standard; Straight Rolls; Weight 45 lbs.	23.25	12 00
✣ **No. 8**—With Foot Lever; Spiral Rolls; Weight 55 lbs.	27.00	14 00

One in a Wood Box

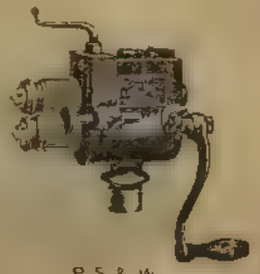


PACKHAM

Adapted to Metals up to 22 Gauge

	Each	Each
No. PC—With Standard; Spiral Beading and Crimping Rolls; Weight Each 27 lbs.	$16.20	

One in a Wood Box



P S & W

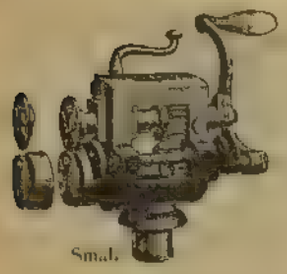
Not Back Geared. For No. 24 Iron and Lighter. Direct Acting for Speed and especially Adapted for Leader Pipe and Stove Pipe

	Each	Each
No. 597—With Standard; Spiral Beading and Crimping Rolls; Weight Each 18 lbs.	$25 00	12 00

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

PECK, STOW & WILCOX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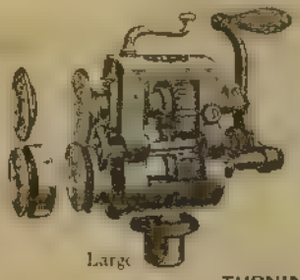
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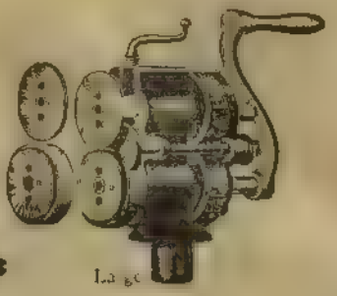
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TURNING MACHINES

Used in Preparing Vessels for Wiring and in Putting Stove Pipe Elbows Together; Each Size of Machine Has Two Sets of Faces, Adapting Them to the Sizes of Wire Most Commonly Used; Adapted to Metals Up to 24 Gauge.

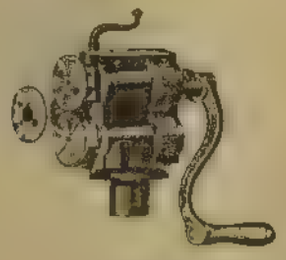
STOW'S COLUMBIAN

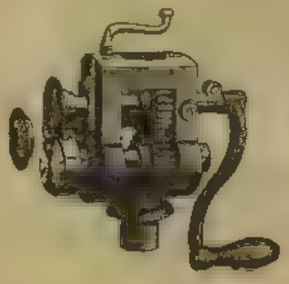
		Each
No. CSTS—Small; With Standard; Wt. Each 26 lbs.	$22 75	10 00
No. CST —Small; Without Standard; Wt. Each 16 lbs.	18 00	9 [illegible]
No. CLTS —Large; With Standard; Wt. Each 30 lbs.	23 00	10 [illegible]
No. CLT —Large; Without Standard; Wt. Each 20 lbs.	20.50	9 50
One in a Wood Box		
		Each
✣ **Extra Faces**, for Small or Large Machines....	$2 15	1 00

STOW'S ENCASED

With Adjustable Faces and Interchangeable Parts; Gearings Are Fully Protected.

		Each
No. ESTS—Small; With Standard; Wt. Each 24 lbs.	$26.00	11.25
No. EST —Small; Without Standard; Wt. Each 14 lbs.	22.50	10.50
No. ELTS —Large; With Standard; Wt. Each 29 lbs.	26 50	11 50
No. ELT —Large; Without Standard; Wt. Each 19 lbs.	25 00	10 75
One in a Wood Box		
		Each
✣ **Extra Faces** for Small or Large Machines.....	$2.15	1.00





BURRING MACHINES

Used for Turning Up Edges on Vessels, after which they are Finished on the Setting Down Machine.

STOW'S COLUMBIAN

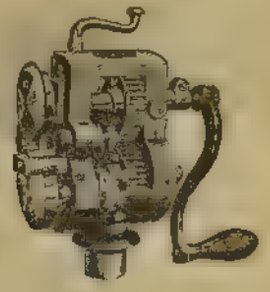
Solid Frame; Faces Pass Over Seams, Without Straining.
Complete With Extra Upper Face

		Each
No. CSBS—Small; With Standard; Wt. 21 lbs.	$19 45	8 50
No. CSB —Small; Without Standard; Wt. 11 lbs.	16 80	7 7[illegible]
No. CLBS—Large; With Standard; Wt. 26 lbs...	20.50	9 00
No. CLB —Large; Without Standard; Wt. 16 lbs.	18 00	8 25
One in a Wood Box		
✣ **Upper Face**; for Small Machine; Weight 2 ozs.	2 15	1 00
✣ **Upper Face**; for Large Machine; Weight 3 ozs.	4.30	2 [illegible]

STOW'S ENCASED

Adjustable Boxes and Interchangeable Parts.
Gearings Are Fully Protected. **Complete With Extra Upper Face.**

		Each
No. ESBS—Small; With Standard; Weight 20 lbs.	$23.00	10 00
No. ESB —Small; Without Standard; Wt. 10 lbs	18.00	9 25
No. ELBS—Large; With Standard; Wt. 24 lbs ...	24.00	10 50
No. ELB —Large; Without Standard; Wt. 14 lbs	19.75	9 75
One in a Wood Box		
✣ **Upper Face**; for Small Machine; Weight 2 ozs..	2.15	1 00
✣ **Upper Face**; for Large Machine; Wt. 3 ozs.....	4.30	2.00



WIRING MACHINES

Used for Rolling the Sheet Metal Tightly Around the Wire After Its Seat Has Been Prepared by the Turning Machine; Adapted to Metals Up to 24 Gauge

STOW'S COLUMBIAN

Solid Frame, Interchangeable Parts; Faces Pass Over Seams Without Straining.

		Each
No. CWS—Machine, With Standard; Wt. 33 lbs.	$27.40	12.00
No. CW —Machine, Without Standard; Wt. 23 lbs.	24.00	11.25
One in a Wood Box		
✣ **Upper or Lower Roll** With Arbor; Wt. Each 2 lbs.	$5.40	2 50

STOW'S ENCASED

Adjustable Boxes and Interchangeable Parts; Gearings are Fully Protected.

		Each
No. EWS—Machine, With Standard; Wt. 30 lbs.	$32.00	14 00
No. EW—Machine, Without Standard; Wt. 20 lbs.	28.80	13.25
One in a Wood Box		
✣ **Upper or Lower Roll** With Arbor; Weight Each 2 lbs..	5.40	2 50

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct From Factory

TINNERS TOOLS

PECK, STOW & WILCOX

SETTING DOWN MACHINES

Used to Fasten the Bottoms on Vessels After the Edges Have Been Turned on the Burring Machine

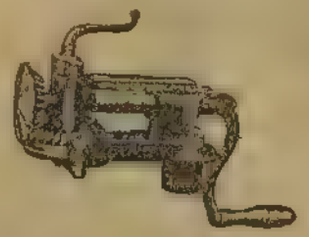
AMERICAN

Easiest to Operate; Faces Pass Over Seams Without Straining.

		Each
No. ASDS—Machine, With Standard; Weight 37 lbs.	$21 30	9.75
No. ASD—Machine, Without Standard; Weight 16 lbs.	19.50	9.00

One in a Wood Box

Used With Both Stow's Encased and Stow's Columbian Machines.



STOW'S ENCASED

Gearings Are Fully Protected

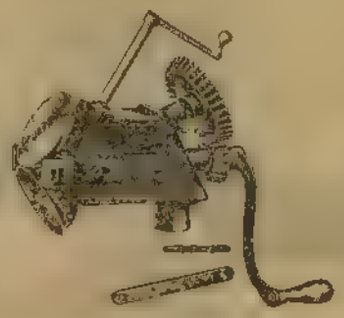
		Each
No. ESDS—Machine, With Standard; Wt. 21 lbs	$22 30	9 75
No. ESD—Machine, Without Standard; Wt. 10 lbs,.	19.50	9.00
✣ **Extra Heavy** Machine, With Standard; Wt. Each 22 lbs.	23.75	11.00

One in a Wood Box

EXTRA PARTS

	Each
Upper Rolls.....	$6 50 3.00
Lower Rolls	6 50 3.00
Lower Journal Plates.....	1 00 .50

IMPROVED



HEAVY

Back Geared 2 to 1

The improvements on these Machines adapt them for setting down the Seams of different shaped vessels to better advantage than any other design. The inclined position of both upper and lower faces allows work to be lapped up or down and seems to be started away while setting down thereby facilitating the operation of double seaming. An Adjustable Gauge is provided for Seams up to ⅝ inch.

Can be fitted with Pulley for power at extra cost.

For No. 24 Iron and Lighter

	Each
✣ **No. 86**—Setting Down Machine with Standard Weight 31 lbs.	$13 50
	29 00

For No. 18 Iron and Lighter

	Each
✣ **No. 87**—Heavy Setting Down Machine with Standard Wt 100 lbs.	$22 00
	45 50

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

TINNERS TOOLS

PECK, STOW & WILCOX

SQUARING SHEARS

Also Adapted for Cutting Leather, Cloth, Paper, Rubber, etc.

HULL'S ACME

With Top and Side Extension Tables Fitted with Front and Back Gauges for Squaring, Stripping and Cutting at any Desired Angle Without First Marking the Sheets.

		Each
✣ No. 725—25 inch Blade; will Cut 18 Gauge Iron; Weight Each 300 lbs.	$91 00	47.00
✣ No. 730—31 inch Blade; will Cut 18 Gauge Iron; Weight Each 425 lbs.	97 00	50 00
✣ No. 731—31 inch Blade; will Cut 14 Gauge Iron; Weight Each 600 lbs.	155 00	80 00
✣ No. 736—37 inch Blade, will Cut 18 Gauge Iron; Weight Each 570 lbs.	155 00	80 00
✣ No. 740—42 inch Blade; will Cut 16 Gauge Iron; Weight Each 900 lbs.	259 75	134 00

✣ EXTRA BLADES

Nos.	Length For inches	Shear No.	Wt.	Per Pair	
725B	25	725	10 lbs.	$19.25	10.50
730B	31	730, 731	20 lbs.	23 25	12 00
736B	37	736	25 lbs.	29.25	15 00
740B	42	740	45 lbs.	42.75	22.00

Loose

HULL'S ACME

Fitted with Front and Back Gauges for Squaring, Stripping and Cutting at any Desired Angle without First Marking the Sheets.

		Each
✣ No. 0—22 inch Blade; will Cut Tin; Wt. Each 300 lbs.	$67 25	35 00
✣ No. 1—25 inch Blade; will Cut Tin Wt. Each 300 lbs.	82 50	43 00
No. 2—31 inch Blade, will Cut 18 Gauge Iron; Weight Each 425 lbs.	92 00	48 00
✣ No. 2½—37 inch Blade will Cut 18 Gauge Iron; Weight Each 600 lbs.	153 50	80 00
✣ No. 3—42 inch Blade; will Cut 16 Gauge Iron; Weight Each 900 lbs.	249 50	130 00
✣ No. 4—52 inch Blade; will Cut 16 Gauge Iron; Weight Each 1,200 lbs.	364 75	190 00
✣ No. 5—61 inch blade, will Cut 18 Gauge Iron, Weight Each 1,650 lbs.	460 75	240.00

✣ EXTRA BLADES

Nos.	Length For Shears	Wt.	Per Pair	
0B	22 in.	No. 0 10 lbs.	$17 25	9 00
1B	25 in.	No. 1 15 lbs.	20 25	10 50
2B	31 in.	No. 2 20 lbs.	23 00	21 00
2½B	37 in.	No. 2½ 27 lbs.	28 75	15 00
3B	42 in.	No. 3 45 lbs.	42 25	22 00
4B	52 in.	No. 4 60 lbs.	55 50	30.00
5B	61 in.	No. 5 70 lbs.	65.25	34.00

Loose

CONTINUOUS CUTTING OR GAP SHEARS

With Hold Down Attachment and Top and Side Extension Tables.

Sheet Metal of any Length can be Cut into Strips from ¾ inch to 18 inches Wide; the Gauges can be Accurately Adjusted; the Hold Down Attachment can be Operated from Either End of the Shear; Sheet Metal 30 inches Wide May be Cross Cut at any Desired Point; the Gauges at the Ends of the Blades Should be Removed to Cut Metal into Strips Longer than 30 inches; with Extension Treadle by which Increased Leverage is Obtained for Heavy Metals.

		Each
✣ No. 85—With Treadle; 30 inch Blade; 15 inch Throat; will Cut 10 Gauge Iron; Weight Each 1,275 lbs.	$324 00	175 00
✣ No. 88—With Treadle; 37 inch Blade; 18 inch Throat will Cut 10 Gauge Iron, Weight Each 1,450 lbs.	378 00	175 00
✣ 185—For Power; 30 inch Blade; 15 inch Throat; will Cut 16 Gauge Iron; Weight Each 1,700 lbs.	486 00	225.00

NOTE. An Extra Charge will be Made for Boxing, when Required; Shipped from Cleveland, Ohio.

ROTARY SHEARS

Squaring Attachment

✣ WAUGH'S PATENT BEVEL, SQUARE AND CIRCULAR SHEARS

This Machine is Exceptionally Easy to Operate and Adjust, the Frame Bearing the Discs can be Removed and a Squaring Attachment Substituted by which Metals can be Slit, Cut Square or at any Desired Bevel.

FOR LIGHT MATERIAL

Operated by Hand

		Each
✣ No. 1—Will Cut any Square or Bevel Under 20 inches; can be Instantly Changed to Cut Circles; Adapted to Metals up to 22 Gauge; Weight Each 60 lbs.	$63 40	33 00
✣ No. 1A—Same as No. 1 with Squaring Attachment; Weight Each 70 lbs.	82 60	43 00
✣ No. 2—Will Cut Circles 2½ to 20 inches; Weight Each 70 lbs.	73 00	38 00
✣ No. 2A—Same as No. 2 with Squaring Attachment; Weight Each 80 lbs.	92 15	48 00

✣ EXTRA PARTS

For all Above Machines

	Per Pair	
✣ No. 1D—Extra Discs	$ 3 25	2 00
✣ No. 1C—Extra Cutters; Weight 1 lb.	9 60	5 00
✣ No. 1CS—Extra Cutters with Shafts.	15 35	8 00
		Each
✣ No. 1HC—Head with Cutters; Wt. Each 35 lbs	$28 80	15 00
✣ No. 1TP—Tail Piece or Slide; Wt. Each 20 lbs.	23 00	12 00

FOR HEAVY MATERIAL

Operated by Hand and Power

		Each
✣ No. 3—For Both Hand and Power; will Cut Circles from 4½ to 36 inches Diameter, from Metals up to 20 Gauge; Weight Each 225 lbs.	$144 00	75 00
✣ No. 320A—Same as No. 3 with 20 inch Bevel and Squaring Attachment; Weight Each 240 lbs.	172 75	90.00
✣ No. 330A—Same as No. 3 with 30 inch Bevel and Squaring Attachment, Weight Each 250 lbs.	192 00	100 00
✣ No. 4—For Power Only; will Cut Circles from 4 to 48 inches Diameter from Metals up to 18 Gauge; Weight Each 500 lbs.	288 00	150 00

✣ EXTRA PARTS

	Per Pair	
✣ No. 3C—Cutters for No. 3, Weight 18 lbs.	$23 00	12 00
✣ No. 4C—Cutters for No. 4, Weight 24 lbs.	28 75	15 00
		Each
✣ No. 4SG—Slitting Gauge for No. 4 to be Used instead of Circle Head, Weight Each 18 lbs.	28 75	15.00

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory

— 1921 —

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished.

No. K0260A 3½ IN. HAND ENGRAVED ALUMINUM HANDLE. Per Dozen $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished.

No. K0264—2⅝ IN. HAND ENGRAVED ALUMINUM HANDLE. Per Dozen $8.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished.

No. K0814—3 IN. GERMAN SILVER HANDLE . . . Per Dozen, $9.50

No. K0151.

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished German Silver Tips and Full Milled Lining

Per Dozen

No. K0251—3 IN. STAG HANDLE $16.00

No. K0154—3 IN. IVORY HANDLE 10.00

No. K60466

Full Polished; German Silver Shield, Full Milled German Silver Lining.

Per Dozen

No. K60466—3½ IN. GENUINE STAG HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 Nail File. $38.00

No. K50466—3½ IN. GENUINE STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File 35.00

No. K80

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, Brass Lining.

Per Dozen

No. K80—3⅜ IN. CELLULOID HANDLE, Assorted Colors. . . . $9.50

No. K0281—3⅜ IN. STAG HANDLE 8.50

No. K6811T—3⅜ IN. STAG HANDLE, with German Silver Tips. 9.00

No. K0280—3⅜ IN. WHITE CELLULOID HANDLE. 11.00

No. K3681

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished; Brass Lining.

Per Dozen

No. K3681—3⅜ IN. STAG HANDLE $14.00

No. K3681T—3⅜ IN. STAG HANDLE, with German Silver Tips 15.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished; German Silver Shield and Lining; Lining Full Milled

Per Dozen

No. K30366—3 IN. GENUINE STAG HANDLE $20.00

No. K3036—3 IN. STAG HANDLE 28.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished German Silver Tips and Shield; Brass Lining

No. K27121—3⅜ IN. IVORY HANDLE . . . . . Per Dozen, $11.00

No. K03833.

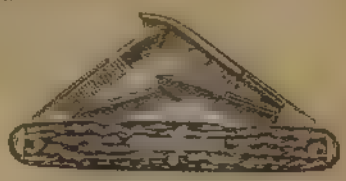
Full Polished Blades, German Silver Tips and Shield, Brass Lining

Per Dozen

No. K03833—3½ IN. GENUINE STAG HANDLE; TWO BLADES, 1 Large Spear Point, 1 Pen. . $18.00

No. K35333—3½ IN. GENUINE STAG HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File 26.00

No. K48333—3½ IN. GENUINE STAG HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File 29.00



FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File. Full Polished; German Silver Tips and Shield. Brass Lining; Milled Back.

Per Dozen

No. K40811—3½ IN. GENUINE STAG HANDLE $26.00

No. K12366—3⅛ IN. GENUINE STAG HANDLE 26.00

No. K441.

German Silver Tips and Shield; Brass Lining, Milled Back

Per Dozen

No. K441—3⅛ IN. STAG HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File, Full Polished $22.00

No. K341—3⅛ IN. STAG HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished $20.00

No. K4021—3 IN. STAG HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File, Full Polished 20.00

No. K3021—3 IN. STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished $18.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Ring; Brass Lining, Milled Back

No. K60088—3½ IN. GENUINE STAG HANDLE. . . Per Dozen, $19.00

No. K3471.

Half Polished Blades; German Silver Tips and Shield; Brass Lining

Per Dozen

No. K3471—3⅜ IN. STAG HANDLE THREE BLADES, 1 Large Spear Point, 1 Pen, 1 File. . . . $14.00

No. K4471—3⅜ IN STAG HANDLE, FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File. 17.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs.

POCKET KNIVES.

"KEEN KUTTER"

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Shield; Brass Lining; Milled Back

Per dozen

No. K0021—3 IN STAG HANDLE $14.00

No. K0256—3 IN. STAG HANDLE 16.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, Brass Lining.

No. K03311—3½ IN. STAG HANDLE .....Per Dozen, $8.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; Brass Lining

No. K02527/S—3¾ IN. STAG HANDLE ..... Per Dozen, $8.00

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished, Polished Steel Bolsters, Genuine Silver Shield on Both Sides, Brass Lining, Milled Center Scale

No. K04328S—3¾ IN. GENUINE STAG HANDLE Per Dozen, $32.00

No. K4878.

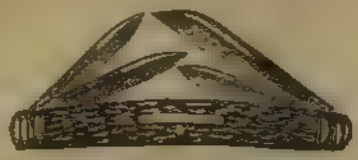
Full Polished Blades; Steel Bolsters, German Silver Shield; Steel Lining.

Per Dozen

No. K4878—3¾ IN. GENUINE STAG HANDLE, FOUR BLADES, 2 Large Sheep Foot Points and 2 Pens $29.00

No. K4778—3¾ IN. GENUINE STAG HANDLE, FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File..... 20.00

No. K40788—3½ IN GENUINE STAG HANDLE; FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File 22.00



FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished, Polished Steel Bolsters, GERMAN SILVER SHIELD ON EACH SIDE; Brass Lining.

No. K4328—3¾ IN. STAG HANDLE .....Per Dozen, $28.00

No. K4177.

FOUR BLADES, 2 Large Sheep Foot Points and 2 Pens, Half Polished; Polished Steel Bolsters; German Silver Shield; Brass Lining

Per Dozen

No. K4177—3¾ IN. STAG HANDLE $19.00

No. K4478—4½ IN. STAG HANDLE 20.00

No. K41777—3¾ IN. GENUINE STAG HANDLE 24.00

THREE BLADES, 1 Large Sheep Foot Point and 2 Pens, Half Polished, Polished Steel Bolsters; German Silver Shield; Brass Lining

No. K33888—3¾ IN. GENUINE STAG HANDLE..Per Dozen, $22.00

No. K35277.

Half Polished Blades; German Silver Shield, Brass Lining

Per Dozen

No. K35277—3¼ IN. GENUINE STAG HANDLE, THREE BLADES, 1 Large Sheep Foot Point, 1 Pen and 1 File; Steel Bolsters....$16.00

No. K3527—3¼ IN. STAG HANDLE, THREE BLADES, 1 Large Sheep Foot Point, 1 Pen and 1 File; German Silver Bolsters. 16.00

No. K45777—3¼ IN. GENUINE STAG HANDLE, FOUR BLADES, 2 Large Sheep Foot Points and 2 Pens; Steel Bolsters..... 22.00

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished; German Silver Bolsters and Shield; Brass Lining

No. K42777—3¼ IN GENUINE STAG HANDLE .Per Dozen, 22.00

No. K4078.

German Silver Bolsters and Shield, Brass Lining

No. K4078—3½ IN. STAG HANDLE, FOUR BLADES, 1 Large Spear Point, 1 Large Sheep Foot Point and 2 Pens, Half Polished Per Dozen $17.00

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Half Polished

No. K4323—3½ IN. STAG HANDLE .....Per Dozen, $17.00

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Half Polished

No. K428—3¼ IN. STAG HANDLE; Per Dozen $19.00

No. K04527.

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished, Polished Steel Bolsters.

Per Dozen

No. K04527—3¼ IN. STAG HANDLE; German Silver Shield; Brass Lining $9.50

No. K02127—3¼ IN. STAG HANDLE Without Shield; Steel Lining 8.50

No. K021277—3¼ IN. GENUINE STAG HANDLE; Without Shield Steel Lining 9.50

No. K0335—3¼ IN. STAG HANDLE; German Silver Bolsters and Shield; Brass Lining..... 9.00

THREE BLADES, 1 Large Sheep Foot Point, 1 Pen and 1 File, Full Polished; German Silver Bolsters and Shield; Brass Lining

No. K33222—3¼ IN. GENUINE STAG HANDLE..Per Dozen, $19.00

No. K3577.

Half Polished Blades; Steel Bolsters; German Silver Shield.

Per Dozen

No. K4577—3½ IN. STAG HANDLE; FOUR BLADES, 2 Large Sheep Foot Points and 2 Pens; Brass Lining $17.00

No. K4527—3¼ IN. STAG HANDLE; FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File; Brass Lining..... 17.00

No. K3127—3¼ IN. STAG HANDLE, THREE BLADES, 1 Large Sheep Foot Point and 2 Pens; Steel Lining 13.00

No. K4127—3¼ IN. STAG HANDLE; FOUR BLADES, 1 Large Sheep Foot Point and 2 Pens; Steel Lining 14.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

FOUR BLADES, 1 Large Sheep Foot Point, 2 Pens and 1 File, Full Polished; Brass Lining; Milled Back

No. K4678S—3¼ IN. GENUINE STAG HANDLE..Per Dozen, $22.00

FOUR BLADES, 2 Large Sheep Foot Points, 1 Pen and 1 File, Half Polished; Steel Bolsters; Brass Lining

No. K4297—3 IN. STAG HANDLE
Per Dozen $15.00

No. K4297

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished.

Per Dozen

No. K0878—3¾ IN. STAG HANDLE; Polished Steel Rat Tail Bolsters; Brass Lining.....$9.00

No. K0878S—3¾ IN GENUINE STAG HANDLE; Polished Steel Bolsters; Brass Lining..... 14.00

No. K0198.

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished; Brass Lining.

Per Dozen

No. K0498—3 IN STAG HANDLE, Steel Bolsters $8.50

No. K0696—3 IN. IVORY HANDLE, Steel Bolsters 11.00

No. K0897—3 IN. STAG HANDLE, German Silver Bolsters..... 8.50

THREE BLADES, 1 Large Sheep Point and 2 Pens, Half Polished; Polished Steel Bolsters; German Silver Shield, Brass Lining.

No. K3287—3¾ IN GENUINE STAG HANDLE..Per Dozen, $22.00

No. K3310.

THREE BLADES, 2 Large Clip Points and 1 Pen, Full Polished German Silver Bolsters and Shield, Brass Lining; Milled Back

Per Dozen

No. K3310—3¾ IN. BUFFALO HORN HANDLE $10.00

No. K3311—3¾ IN. STAG HANDLE .....

No. K3316.

THREE BLADES, 1 Large Saber Pattern and 1 Large Clip Point and 1 Pen, Half Polished; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K3316—3¾ IN. STAG HANDLE $10.00

No. K3315—3¾ IN. BUFFALO HORN HANDLE 10.00

No. K3316—3¾ IN. IVORY HANDLE 15.00

No. K3486

Full Polished Blades, German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. K3486—3½ IN. STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File.$10.00

No. K3496¾—3½ IN. STAG HANDLE, THREE BLADES 1 Large Clip Point, 1 Small Clip and 1 Pen Blade 17.00

No. K3698.

Half Polished Blades, German Silver Bolsters and Shield, Brass Lining.

Per Dozen.

No. K3698—3½ IN. STAG HANDLE, THREE BLADES, 1 Large Spear Point and 2 Pens.....$15.50

No. K3698¾—3½ IN. STAG HANDLE, THREE BLADES, 1 Large Clip Point and 2 Pens..... 15.00

No. K3698—3½ IN. EBONY HANDLE, THREE BLADES, 1 Large Spear Point and 2 Pens..... 15.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished, German Silver Bolsters and Shield, Brass Lining.

No. K306R—3½ IN. EBONY HANDLE.....Per Dozen, $16.00

No. K0348.

TWO BLADES, 1 Spear and 1 Clip Point, Half Polished; German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. K0348—3¼ IN. STAG HANDLE $13.00

No. K0348S—3¼ IN. GENUINE STAG HANDLE 14.00

No. K026788—3¾ IN GENUINE STAG HANDLE 14.00

No. K0247

TWO LARGE BLADES, 1 Spear and 1 Clip Point, Half Polished; Brass Lining

Per Dozen

No. K0247—3¼ IN. STAG HANDLE, German Silver Bolsters and Shield $14.00

No. K0248—4 IN STAG HANDLE, Polished Steel Bolsters and German Silver Shield 15.00

No. K0646

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Shield; Brass Lining.

Per Dozen.

No. K0896—3½ IN. EBONY HANDLE, German Silver Bolsters.$12.00

No. K0698—3½ IN. STAG HANDLE, German Silver Bolsters 12.00

No. K0698S—3½ IN. STAG HANDLE, German Silver Bolsters 14.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

Per Dozen

No. K04484½—3½ IN. STAG HANDLE TWO BLADES, 1 Large Clip and 1 Small Clip, Half Polished, German Silver Bolsters and Shield; Brass Lining.....$12.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining.

No. K0365R—3⅝ IN. COCOBOLO HANDLE.....Per Dozen, $12.00

No. K02688.

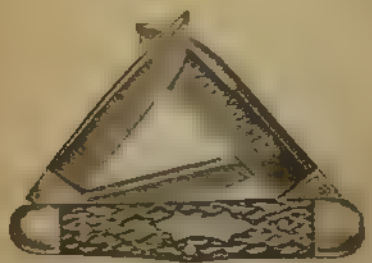
TWO BLADES, 1 Spear Point and 1 Pen, Half Polished; German Silver Bolsters; Brass Lining.

Per Dozen

No. K02688—3½ IN. STAG HANDLE $9.50

No. K02330—3¼ IN. GRANADILLA HANDLE 9.50

No. K02331—3¼ IN. STAG HANDLE 9.50



No. K38.

THREE BLADES, 1 Large Spear, 1 Large Spey and 1 Pen; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K38—3¾ IN. STAG HANDLE $17.50

No. K38—3¾ IN. EBONY HANDLE 17.50

No. K38¾.

THREE BLADES, 1 Large Clip, 1 Large Spey Point and 1 Pen, Half Polished; German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. K38¾—3½ IN. STAG HANDLE $17.50

No. K3863½—3⅝ IN. EBONY HANDLE 17.50

No. K3863½—3⅝ IN. GENUINE STAG HANDLE 20.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Full Polished; German Silver Tips, Shield and Lining.

No. K30311—3⅝ IN. GENUINE STAG HANDLE...Per Dozen, $26.00

No. K34.

Half Polished Blades, German Silver Bolsters and Shield.

Per Dozen

No. K3433—4 IN. STAG HANDLE THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey; Brass Lining $18.50

No. K3433—4 IN. STAG HANDLE THREE LARGE BLADES, 1 Penetrating Clip, 1 Sheep Foot and 1 Spey; Brass Lining 19.00

No. K3433—4 IN. GENUINE STAG HANDLE, THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey; German Silver Lining 22.00

No. K8433—4 IN. STAG HANDLE, THREE LARGE BLADES, 1 Clip, 1 Wharncliffe and 1 Spey; Brass Lining 19.00

FIVE BLADES, 1 Large Clip, 1 Large Spey and 1 Pen, Half Polished, German Silver Bolster and Shield, Brass Lining

No. K3333—4 IN. STAG HANDLE.....Per Dozen, $24.00

THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey Point, Half Polished; Polished Steel Bolsters; German Silver Shield, Brass Lining.

No. K3322—4 IN. GENUINE STAG HANDLE.....Per Dozen, $22.00

No. K3721.

FULL POLISHED BLADES; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K3721—3¼ IN. STAG HANDLE; THREE LARGE BLADES, 1 Spear, 1 Sheep Foot and 1 Spey Point $22.00

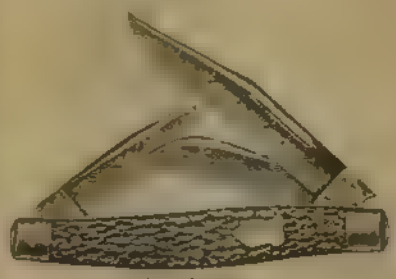
No. K4721½—3¼ IN. STAG HANDLE, FOUR BLADES, 1 Large Clip, 1 Large Spey, 1 Large Sheep Foot and 1 Pen. 24.00

HALF POLISHED BLADES; Polished Steel Bolsters; German Silver Shield; Brass Lining

Per Dozen

No. K3721—3¼ IN. STAG HANDLE; THREE LARGE BLADES, 1 Spear, 1 Sheep Foot and 1 Spey Point $11.00

No. K4721½—3¼ IN. STAG HANDLE; FOUR BLADES, 1 Large Clip, 1 Large Spey, 1 Large Sheep Foot Point and 1 Pen Blade.. 16.00



No. K328.

Half Polished Blades; German Silver Bolsters and Shield; Brass Linings

THREE LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey.

Per Dozen

No. K3828—4 IN. STAG HANDLE $19.00

No. K3825—4 IN BUFFALO HORN HANDLE 19.00

No. K3963½—4⅛ IN. STAG HANDLE 22.00

THREE LARGE BLADES, 1 Clip, 1 Wharncliffe and 1 Spey.

No. K8828—4 IN. STAG HANDLE. Per Dozen 19.00

THREE BLADES, 1 Large Sheep Foot, 1 Large Clip Point, and 1 Pen Half Polished; German Silver Bolsters and Shield; Brass Lining

No. K37288—3½ IN. GENUINE STAG HANDLE..Per Dozen, $20.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

1925

POCKET KNIVES.

KLEIN KUTTER

Highest Grade English Crucible Steel Blades Uniformly Tempered SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

No. K7243

Half Polished Blades; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K7243—3¾ IN. STAG HANDLE, THREE BLADES, 1 Large Clip, 1 Large Spey Point and 1 Pen $19.00

No. K7433—THREE BLADES, 1 Large Spear, 1 Large Clip and 1 Large Spey Point..... 19.00

No. K7423—TWO BLADES, 1 Large Clip Point and 1 Pen..... 14.00

No. K44288.

Four Blades, 1 Large Clip, 1 Large Sheep Foot, 1 Large Spey Point and 1 Pen, full polished; German Silver Bolsters, Shield and Lining. Milled Back.

Per Dozen

No. K44288—4 IN. GENUINE STAG HANDLE $28.00

No. K4428—4 IN. STAG HANDLE 28.00

No. K4420—4 IN. BUFFALO HORN HANDLE 26.00

THREE BLADES, 1 Large Clip, 1 Large Spear, 1 Pen and 1 File, Half Polished; German Silver Bolsters and Shield, Brass Lining. Lock Back.

Per Dozen

No. K3008—3¾ IN. STAG HANDLE $32.00

TWO LARGE BLADES, 1 Spear and 1 Spey, Half Polished; German Silver Bolsters and Shield, Brass Lining.

Per Dozen

No. K07243—3¾ IN. STAG HANDLE $14.00

No. K03243¾.

Half Polished Blades; German Silver Bolsters and Shield, Brass Lining

Per Dozen

No. K03243¾—4 IN. STAG HANDLE, TWO LARGE BLADES, 1 Clip and 1 Spey Point..... $14.00

No. K03248—4 IN. STAG HANDLE; TWO LARGE BLADES, 1 Clip and 1 Spear Point..... 14.00

No. K3293.

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished; German Silver Bolsters and Shield, Brass Lining

Per Dozen

No. K3293—4 IN. STAG HANDLE $20.00

No. K32933—4 IN. GENUINE STAG HANDLE 23.00

No. K03433.

Half Polished Blades; German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. K03433—4 IN. STAG HANDLE, TWO LARGE BLADES, 1 Clip and 1 Spey $14.00

No. K03432—4 IN. STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... 14.00

THREE BLADES, 1 Large Clip Point and 2 Pens, Full Polished, German Silver Bolster and Shield, Brass Lining

No. K33408—3¾ IN. STAG HANDLE.....Per Dozen, $22.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished, German Silver Bolsters and Shield, Brass Lining

Per Dozen

No. K3108—3¾ IN. STAG HANDLE $17.00

No. K3281—3¾ IN. STAG HANDLE 20.00

No. K5558.

Handy Hand Hold

Half Polished Blades, German Silver Bolsters and Shield, Brass Lining.

Per Dozen

No. K5558—3¾ IN. STAG HANDLE; 3 BLADES, 2 Large Clips, 1 Large Sheep Foot, 1 Large Spey and 1 Pen..... $28.00

No. K5558—3¾ IN. STAG HANDLE, 4 BLADES, 1 Large Sheep Foot, 1 Large Clip, 1 Large Spey and 1 Pen 22.00

No. K6558—3¾ IN. STAG HANDLE, 3 LARGE BLADES, 1 Clip, 1 Sheep Foot and 1 Spey..... 20.00

Two Blades, 1 Large Clip Point and 1 Pen Half Polished; German Silver Bolster and Cap; Brass Lining

Per Dozen

No. K8214 3¼ IN STAG HANDLE $12.00

TWO LARGE BLADES, 1 Spear and 1 Spey Point Half Polished; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K02021—3¾ IN. STAG HANDLE $14.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs.

1926—
POCKET KNIVES.

KEEN KUTTER

Highest Grade Polish Crucible Steel Blades Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K3156

[illegible] Bolsters and Shield; Brass Lining.

Per Dozen

No. K3166—3¼ IN. EBONY HANDLE; THREE BLADES, 1 Large Spear Point and 2 Pens ... **$17.00**

No. K3160¾—3¼ IN. EBONY HANDLE; THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Pen ... **17.00**

No. K03166¾—3¼ IN. EBONY HANDLE; TWO BLADES, 1 Large Spear and 1 Spey Point ... **12.00**

No. K3168—3¼ IN. STAG HANDLE; THREE BLADES, 1 Large Spear Point and 2 Pens ... **17.00**

No. K3165—3¼ IN. STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Large Spey Point and 1 Pen ... **17.00**

No. K03168¾—3¾ IN. STAG HANDLE, TWO LARGE BLADES, 1 Spear and 1 Spey Point ... **12.00**

No. K0698.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shield Brass Lining.

Per Dozen

No. K0598—3¾ IN. STAG HANDLE ... **$11.00**

No. K0797—3¾ IN. GRANADILLA HANDLE ... **9.50**

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters, Brass Lining.

No. K0797—3¾ IN. STAG HANDLE.....Per Dozen, **$9.50**

No. K[illegible]

Full Polish [illegible] German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K3438—4⅛ IN. STAG HANDLE; THREE LARGE BLADES, 1 Spey and 1 Sheep Foot Point ... **$22.00**

No. K34388—4⅛ IN. GENUINE STAG HANDLE; THREE LARGE BLADES, 1 Large Spear and 1 Sheep Foot Point ... **26.00**

No. K38388—4⅛ IN. GENUINE STAG SQUARE HANDLE; THREE BLADES, 1 Large Spear Point, 1 Sheep Foot Point and 1 Pen, Millers Back ... **29.00**

No. K42788—3¾ IN. GENUINE STAG HANDLE; FOUR BLADES, 1 Large Spear, 1 Large Sheep Foot, 1 Large Spey Point and 1 Pen ... **29.00**

No. K[illegible]

[illegible] Bolsters and Shield; Brass Lining.

Per Dozen

No. K0181—3¾ IN. EBONY HANDLE; TWO BLADES, 1 Large Pattern Clip Point and 1 Pen ... **$12.00**

No. K3181—3¾ IN. EBONY HANDLE; THREE BLADES, 1 Large Clip Point and 2 Pens ... **17.00**

No. K[illegible]

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K0198—3¾ IN. STAG HANDLE ... **$9.50**

No. K0195—3¾ IN. GRANADILLA HANDLE ... **9.50**

No. K0196—3¾ IN. EBONY HANDLE ... **9.50**

No. K4071.

FOUR BLADES, 1 Large Spear 2 Pens and 1 File; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K4071—3¾ IN. STAG HANDLE; Half Polished Blades... **$19.00**

No. K[illegible]62

THREE BLADE, 1 Large Sheep Foot, 1 Large Spey Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K7302—3¾ IN. STAG HANDLE ... **$19.00**

No. K7301—3¾ IN. EBONY HANDLE ... **17.00**

No. K03098 [illegible]

Half Polished Blades, German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K03098¾—3¾ IN. EBONY HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen...**$11.00**

No. K32953¾—3¾ IN. GRANADILLA HANDLE; THREE BLADES, 1 Large Clip Point, 1 Small Clip Point and 1 Pen ... **17.00**

No. K3297—3¾ IN. STAG HANDLE; THREE BLADES, 1 Large Clip Point, 1 Small Sheep Foot and 1 Pen ... **17.00**

No. K0678.

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished; Polished Steel Rat Tail Bolsters; German Silver Shield; Brass Lining.

No. K0678—3¾ IN. STAG HANDLE.....Per Dozen, **$9.50**

[illegible] Bolsters and Shield; Brass Lining.

No. K4487—3¾ IN. GENUINE STAG HANDLE ... Per Dozen **$29.00**

THREE BLADES, 1 Large Spear Point, 1 Large Heavy Blade for [illegible] and 1 Pen; Half Polished German Silver Bolsters and Shield; Brass Lining.

No. K3676—3¾ IN. EBONY HANDLE ... Per Dozen, **$17.00**

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

1927

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K3278

THREE LARGE BLADES, 1 Spear, 1 Clip and 1 Spey Point, Half Polished; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K3278—3⅜ IN. STAG HANDLE $18.00

No. K3278S—3⅜ IN. GENUINE STAG HANDLE 22.00

No. K3270—3⅜ IN. BUFFALO HORN HANDLE 19.00

No. K3277—3⅜ IN. WHITE BONE HANDLE 19.00

No. K3533—3½ IN. STAG HANDLE 17.00

THREE BLADES, 1 Large Spear, 1 Clip and 1 Spey Point, Glazed Finish; German Silver Bolster and Shield; Brass Lining. Per Dozen

No. K3533—3½ IN. STAG HANDLE $17.00

THREE LARGE BLADES, 1 Spear, 1 Clip and 1 Spey Point, Glazed Finish; Steel Bolsters; German Silver Shield; Brass Lining. Per Dozen

No. K3277—3⅜ IN. GRANADILLA HANDLE $14.00

No. K3278—3⅜ IN. STAG HANDLE 14.00

No. K3272

Half Polished Blades; German Silver Bolsters and Shield; Brass Lining.

No. K3072—3⅜ IN. EBONY HANDLE. THREE BLADES; 1 Large Spear Point and 2 Pens... $14.00

No. K3071—3⅜ IN. STAG HANDLE. THREE BLADES, 1 Large Spear Point and 2 Pens... 14.00

No. K3071—3⅜ IN. STAG HANDLE. THREE BLADES, 1 Clip and 2 Pens 14.00

No. K3071—3⅜ IN. GENUINE STAG HANDLE. THREE BLADES, 1 Large Spear Point and 2 Pens..... $18.00

TWO LARGE BLADES, Spear Point; Half Polished; German Silver Bolsters and Shield; Brass Lining; German Silver Clasp.

No. K3073S—3⅜ IN. STAG HANDLE.....Per Dozen, 16.00

No. K0353

TWO BLADES, 1 Large Spear Point and 1 Pen. Half Polished, German Silver Bolsters and Shield Brass Lining.

Per Dozen

No. K0353—3½ IN. STAG HANDLE $11.00

No. K0351—3¼ IN. BUFFALO HORN HANDLE 12.00

No. K03533—3½ IN. GENUINE STAG HANDLE 12.00

No. K0481

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shields Brass Lining.

Per Dozen

No. K0481—3⅜ IN. EBONY HANDLE $12.00

No. K0483—3⅜ IN. STAG HANDLE 13.00

No. K04833—3⅜ IN. GENUINE STAG HANDLE 14.00

No. K02071

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shields, Brass Lining.

Per Dozen

No. K02071—3⅜ IN. STAG HANDLE $9.50

No. K02072—3⅜ IN. EBONY HANDLE 12.00

No. K020711—3⅜ IN. GENUINE STAG HANDLE 12.00

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot and 1 Combination Blade with Bottle Opener, Cork Puller and Screw Driver; Half Polished, German Silver Bolsters and Shield; Brass Lining.

No. K3387S—3½ IN. STAG HANDLE.....Per Dozen, $17.00

No. K8464

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot Point and 1 Pen, Half Polished; German Silver Bolsters; Brass Lining.

Per Dozen

No. K8464—3¾ IN. IVORY HANDLE, Shield; *KEEN KUTTER* Kattle Knife, with Steer's Head on Handle $25.00

No. K3473C—3⅜ IN. SILVER CELLULOID HANDLE. Not Stamped German Silver Shield 17.00

No. K3261

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished; German Silver Bolsters; Brass Lining.

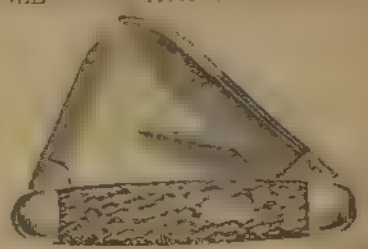
Per Dozen

No. K3261—3½ IN. STAG HANDLE $19.00

No. K3261I—3½ IN. GENUINE STAG HANDLE 23.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished; German Silver Bolsters and Shield Brass Lining.

No. K3126I—3½ IN. STAG HANDLE.....Per Dozen, $14.00



THREE BLADES, 1 Large Spear Point, 1 Large Spey Point and 1 Pen, Half Polished; German Silver Bolsters and Shield, Brass Lining.

No. K3727S—3⅜ IN. STAG HANDLE.....Per Dozen, $19.00

No. K323

THREE BLADES, 1 Large Spear, 1 Clip and 2 Pens, Half Polished; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K323—3¾ IN. STAG HANDLE $19.50

No. K3231—3¾ IN. GENUINE STAG HANDLE 22.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

—1928—

POCKET KNIVES.

"KEEN KUTTER"

[illegible] U. S. Government English Razor Steel Blades, Correctly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K3878.

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot Point and 1 Pen. Half Polished German Silver Bolsters and Shield; Brass Lining.

	Per Dozen
No. K3878—3¾ IN. STAG HANDLE	$17.00
No. K3178S—3¾ IN GENUINE STAG HANDLE	22.00
No. K3876—3¾ IN. EBONY HANDLE	18.00

No K3208.

Full Polished Blades; German Silver Bolsters and Shield; Brass Lining.

	Per Dozen
No. K3208—3¼ IN. STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File	$18.00
No. K3208S—3¼ IN GENUINE STAG HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File	19.00
No. K0881—3⅛ IN STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 File	9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shield; Brass Lining.

No. K02283—3⅞ IN GENUINE STAG HANDLE. Per Dozen, $11.00

THREE BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining.

No. K3188S—3¾ IN GENUINE STAG HANDLE...Per Dozen, $13.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished German Silver Bolsters and Shield, Brass Lining.

No. K3307R—3 IN STAG HANDLE, Per Dozen $14.00

No. K02161

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolsters, Brass Lining.

	Per Dozen
No. K02161—3½ IN. STAG HANDLE	$8.50
No. K02160—3 IN GENUINE STAG HANDLE	8.50

No. K3218

THREE BLADES, 1 Large Sheep Foot Point, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolsters and Shield

No. K3218—3¾ IN EBONY HANDLE $14.00

No. K3218S—3¾ IN GENUINE STAG HANDLE, Filed Back, 19.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished; German Silver Bolsters and Shield; Brass Lining.

No. K3[illegible]—3¾ IN STAG HANDLE, Per Dozen $14.00

No. K01881

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shield; Brass Lining.

	Per Dozen
No. K01881—3¼ IN. STAG HANDLE	$9.50
No. K01882—3¼ IN EBONY HANDLE	8.50
No. K0813R—3 IN STAG HANDLE	9.50

*One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs

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[illegible] MAIL ORDER business [illegible] enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

Our shipping facilities are unequaled

We invite correspondence.

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is [illegible]. He is authorized to act

1929

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE.

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished, German Silver Bolsters, Shield and Lining.

Per Dozen

No. K3018—3⅝ IN. STAG HANDLE $15.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K02457—3⅛ IN. GENUINE STAG HANDLE $14.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished, German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K3218—3⅛ IN. STAG HANDLE $14.00

No. K0337.

Half Polished Blades, German Silver Tips and Shield; Brass Lining.

Per Dozen

No. K0337—3⅛ IN. STAG HANDLE $12.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining; 3⅛ IN. STAG HANDLE $12.00

THREE BLADES, 1 Large Spear Point and 2 Pens, Half Polished, German Silver Bolsters, Shield and Lining; 3⅛ IN. STAG HANDLE $14.00

No. K0337.

TWO BLADES, 1 Large Wharncliffe and 1 Pen, Half Polished; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K0337—3⅛ IN. STAG HANDLE $12.00

No. K0337—3⅛ IN. GENUINE STAG HANDLE 14.00

No. K3138.

THREE BLADES, 1 Large Wharncliffe and 2 Pen, Half Polished Polished Steel Rat Tail Bolsters German Silver Shield, Brass Lining.

Per Dozen

No. K3138—3⅛ IN. STAG HANDLE $15.00

No. K31388—3⅛ IN. GENUINE STAG HANDLE $19.00

Full Polished Blades Flush German Silver Bolsters and Shield Brass Lining.

Per Dozen

No. K3521—3⅛ IN. STAG HANDLE THREE BLADES, 1 Large Wharncliffe, 1 Pen and 1 File..... $17.00

No. K35388—3⅛ IN. GENUINE STAG HANDLE THREE BLADES 1 Large Wharncliffe and 2 Pen 23.00

No. K0271.

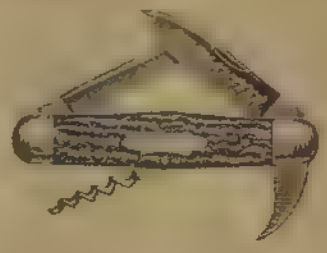
TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K0271—3⅛ IN. EBONY HANDLE $12.00

No. K0273—3⅛ IN. STAG HANDLE 13.00

No. K02733—3⅛ IN. GENUINE STAG HANDLE 14.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished, Corkscrew and Wire Cutter on Back of Handle; To Open Corkscrew, Press on Wire Cutter; German Silver Bolsters and Shield; Brass Lining.

Per Dozen

No. K46888—3⅛ IN. GENUINE STAG HANDLE $20.00

No K3451

Full Polished Blades; Nickel Plated Corkscrew on Back of Handle, German Silver Bolsters and Shield, Brass Lining.

Per Dozen

No. K3251—3⅛ IN. STAG HANDLE TWO BLADES, 1 Large Spear Point and 1 Pen $26.00

No. K32251—3⅛ IN. STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Cap Lifter. 24.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs

SATISFACTION

We buy more goods than any other Hardware concern in the world.
We carry a larger assortment than any other Hardware concern in the world.
We sell more goods than any other Hardware concern in the world.
We have more customers than any other Hardware concern in the world.

WHY?

Lowest Prices
Good Service
Complete satisfaction of the old-fashioned kind.
We appreciate your business more than any other house in the world

SEND US YOUR MAIL ORDERS

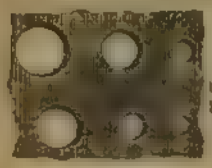
1930—

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

WITH LEATHER PUNCH BLADE



Showing Possibilities of Leather Punch Blade.

No. 6

TWO BLADES, 1 Spear Point; 1 PATENT LEATHER PUNCH, Half Polished Steel Bolster, Brass Lining

Per Dozen

No. K73286—3½ IN. EBONY HANDLE $9.00

No. K73285—3½ IN. RESEWED STAG HANDLE 9.00

No. K73288—3½ IN. STAG HANDLE 11.00

THREE BLADES, 1 Large Spear Point, 1 Large Sheep Foot Point and 1 PATENT LEATHER PUNCH; Half Polished Blades, German Silver Bolsters and Shield, Brass Lining.

No. K73071—3¾ IN. STAG HANDLE.....Per Dozen, $17.00

WITH LEATHER PUNCH BLADE

No. K73876¾.

THREE BLADES, 1 Large Spear, 1 Large Sper and 1 Patent Leather Punch, Half Polished German Silver Bolsters and Shield, Brass Lining

Per Dozen

No. K73876¾—3¾ IN. EBONY HANDLE $18.00

No. K73878¾—3¾ IN STAG HANDLE 18.00

No. K73876

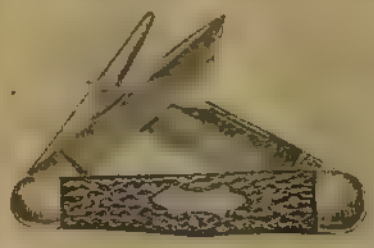
Half Polished Steel Blades, German Silver Bolsters and Shield, Brass Lining

Per Dozen

No. K73875—3¾ IN. STAG HANDLE; THREE BLADES, 1 Large Spear, 1 Large Sheep Foot Point and 1 PATENT LEATHER PUNCH $16.00

No. K73876—3¾ IN EBONY HANDLE; THREE BLADES, 1 Large Spear, 1 Large Sheep Foot Point and 1 Patent Leather Punch... 18.00

WITH LEATHER PUNCH BLADE



THREE BLADES, 1 Large Clip, 1 Large Spey Point and 1 PATENT LEATHER PUNCH, Half Polished German Silver Bolster and Shield, Brass Lining.

No. K73884¾—3¾ IN STAG HANDLE.....Per Dozen, $19.00

THREE BLADES, 1 Large Clip, 1 Sheep Foot Point and 1 PATENT LEATHER PUNCH, Half Polished German Silver Bolster and Shield, Brass Lining

No. K73903¾—4¼ IN STAG HANDLE.....Per Dozen, $23.00

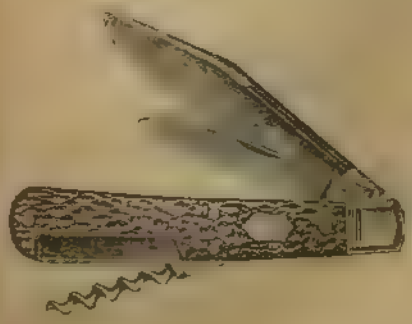
One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs

BOY SCOUTS KNIVES

Per Dozen

No. K6538—3¾ IN STAG HANDLE, FOUR BLADES: 1 Large Saber Pattern Blade, 1 Can Opener, 1 Combination Screw Driver and Bottle Opener and 1 Patent Leather Punch Blade, Half Polished; German Silver Bolsters and Shield; Brass Lining, German Silver Shackle $17.00

One-half Dozen in a Cardboard Box; Weight per dozen about 2½ lbs



TWO BLADES, 1 Large Clip Point and 1 Pen, Half Polished; Cork Screw on Back, German Silver Bolster and Shield; Brass Lining

Per Dozen

No. K3953¾—4¼ IN. STAG HANDLE..... $19.00

Half Polished Blade, Lock Back

No. K1058¾.

Per Dozen

No. K1058¾—4½ IN. STAG HANDLE; ONE LARGE BLADE, Clip Point, German Silver Bolster and Shield Brass Lining $14.00

No. K1178¾—4¾ IN. STAG HANDLE, ONE LARGE BLADE, SABER PATTERN Steel Bolster and Lining 15.00

One-half Dozen in a Cardboard Box, Weight per Dozen about 2 lbs.

—1931—

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining

No. K2063—4¼ IN. STAG HANDLE ..... Per Dozen, $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. K2065—4¼ IN. STAG HANDLE ..... Per Dozen $14.00

Half Polished Blades; German Silver Bolster, Cap and Shield; Brass Lining.

No. K2073

Per Dozen

No. K2073—4¼ IN. STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen $14.00

No. K2073½—4¼ IN. STAG HANDLE, TWO BLADES, 1 Large Clip Point and 1 Pen 14.00

Half Polished Blades; German Silver Bolster, Cap and Shield; Brass Lining.

No. K2683½.

Per Dozen

No. K2683½—4¼ IN. STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... $14.00

No. K2683—4¼ IN. STAG HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... 14.00

No. K2683½—4¼ IN. GENUINE STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen..... 17.00

No. K2683½—4¼ IN. GENUINE STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... 17.00

No. K2683S—4¼ IN. GENUINE SQUARE STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen 10.00

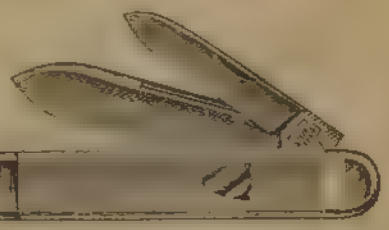
TWO BLADES, 1 Large Spear Point and 1 Pen; Full Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. K2[illegible]

Per Dozen

No. K2472—3[illegible] IN WHITE BONE HANDLE.. ... $14.00

No. K2473—3½ IN STAG HANDLE.. ... . 14.00



No. K5670.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield, Brass Lining

Per Dozen

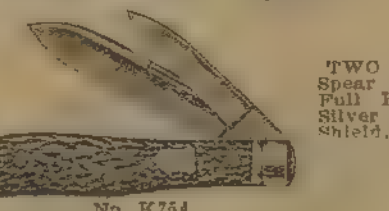
No. K5670—4⅜ IN. WHITE CELLULOID HANDLE. $14.00

No. K5673—4⅜ IN. STAG HANDLE..... 14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. 05673—4⅜ IN STAG HANDLE $14.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished German Silver Bolster, Cap and Shield, Brass Lining

No K754.

Per Dozen

No. K754—3½ IN. STAG HANDLE..... $13.50

No. K755—3½ IN. BUFFALO HORN HANDLE..... 13.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining

No. K2528

Per Dozen

No. K2528—4⅜ IN. STAG HANDLE German Silver Bolsters and Brass Lining $14.00

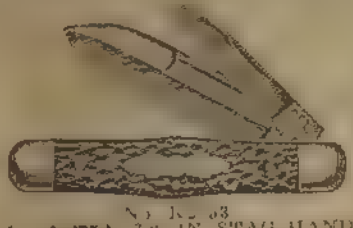
No. K2528S—4⅜ IN. GENUINE STAG HANDLE German Silver Shield 14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polish; German Silver Bolster, Cap and Shield; Brass Lining

Per Dozen

No. K752—[illegible] IN STAG HANDLE $14.50

No. K751—[illegible] IN WHITE BONE HANDLE 13.50



TWO BLADES, 1 Large Saber Pattern Spear Point and 1 Pen, Full Polished, German Silver Bolster, Cap and Shield; Brass Lining

No. K2553

Per Dozen

No. K2553—3⅝ IN STAG HANDLE $14.00

No. K2551—3⅝ IN EBONY HANDLE 13.00

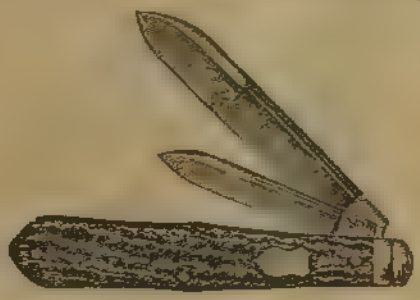
One-half Dozen in a Cardboard Box, Weight per Dozen about 2 lbs.

—1932—

POCKET KNIVES.

KEEN KUTTER.

Highest Grade English Crucible Steel Blades Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.



TWO BLADES, 1 Large Spear Point and 1 Pen. Half Polished; Steel Bolster; German Silver Shield; Brass Lining.

Per Dozen

No. K21033—4¾ IN GENUINE STAG HANDLE.....$14.00

ONE LARGE SABLE PATTERN BLADE, Clip Point, Glazed Finish Steel Bolster and Cap, German Silver Shield Steel Lining

Per Dozen

No. K41005—5¼ IN EBONY HANDLE..... $15.00

No. K726.

Full Polished Blades; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K726—3¾ IN. GRANADILLA HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen $14.00

No. K726½—3¾ IN. EBONY HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... $4.00

No. K725—3¾ IN. STAG HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... 14.00

No. K725½.

Half Polished Blades; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K725/C—3½ IN. COCOBOLO HANDLE. TWO BLADES, 1 Large Spear Point and 1 Pen.....$12.00

No. K725½—3½ IN. EBONY HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... 12.00

No. K27277—3½ IN. GENUINE STAG HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... 14.00

No. K27277½—3½ IN GENUINE STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... 14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished German Silver Bolsters and Shield Brass Lining.

Per Dozen

No. K27255—3½ IN. COCOBOLO HANDLE..... ....$9.00

No. K27188—3¾ IN. GENUINE STAG HANDLE .. 14.00

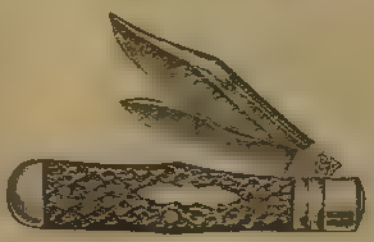
No. K2438½.

Half Polished Blades; German Silver Bolster and Shield; Brass Lining.

Per Dozen

No. K2438½—4 IN STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... $13.50

No. K2438— IN STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen..... 13.50



No. K2718¾.

TWO BLADES 1 Large Clip Point Saber Pattern and 1 Pen, Half Polished, German Silver Bolster Cap and Shield, Brass Lining

Per Dozen

No. K2715¾—3¾ IN STAG HANDLE $13.00

No. K27188¾—3¾ IN. GENUINE STAG HANDLE 15.00

No. K1201.

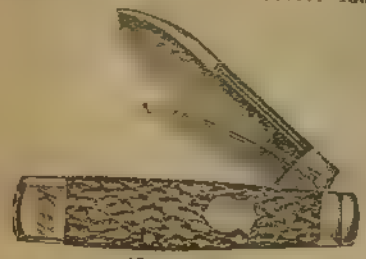
TWO BLADES 1 Large Spear Point and 1 Pen, German Silver Bolster, Cap and Shield, Brass Lining.

Per Dozen

No. K1201—3½ IN STAG HANDLE. Half Polished Blades.. ....$14.00

No. K1200—3½ IN. EBONY HANDLE; Half Polished Blades... 14.00

No. K22083—3½ IN. GENUINE STAG HANDLE Half Polished Blades 15.00



No. K1210.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Steel Bolster, German Silver Cap and Shield Brass Lining

Per Dozen

No. K1210—3¾ IN STAG HANDLE $14.00

No. K1211—3¾ IN EBONY HANDLE 14.00

No. K2218—3¾ IN. GENUINE STAG HANDLE 15.00

TWO BLADES, 1 Large Spear Point and 1 Pen, German Silver Bolster, Cap and Shield Brass Lining.

Per Dozen

No. K748—3½ IN. STAG HANDLE, Half Polished Blades $12.00

No. K2618.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield, Brass Lining.

Per Dozen

No. K2618—3¾ IN STAG HANDLE $14.00

No. K2615—3¾ IN. GRANADILLA HANDLE 14.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 3 lbs.

1933
POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K2621.

Half Polished Blades; Steel Bolster and Cap; German Silver Shield; Brass Lining

TWO BLADES, 1 Large Spear Point and 1 Pen.

Per Dozen

No. K2621—3¾ IN. EBONY HANDLE $9.50

No. K2623—3¾ IN. STAG HANDLE 11.50

No. K2623S—3¾ IN. GENUINE STAG HANDLE 13.00

TWO BLADES, 1 Large Clip Point and 1 Pen.

No. K2623¾—3¾ IN. STAG HANDLE $11.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Polished Steel Bolster and Cap; German Silver Shield, Brass Lining

Per Dozen

No. K2108S—4 IN. GENUINE STAG HANDLE $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield, Brass Lining.

Per Dozen

No. K2613—3¾ IN. STAG HANDLE $14.00

Two Large Blades, 1 Clip and 1 Spey, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2048¼—3¾ IN. STAG HANDLE $17.00

No. K2048¾.

TWO BLADES, 1 Large Clip Point and 1 Pen, Half Polished; German Silver Bolster and Shield; Brass Lining

Per Dozen

No. K2048¾—3¾ IN. STAG HANDLE; German Silver Cap.... $14.00

No. K2248¾—4¼ IN. STAG HANDLE; German Silver Cap.... 14.00

No. K2278¾—3¾ IN. STAG HANDLE, WITHOUT CAP 13.00

No. K2068.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield; Brass Lining

Per Dozen

No. K2068—3¾ IN. STAG HANDLE $12.00

No. K2063S—3¾ IN. GENUINE STAG HANDLE 14.00

No. K2323.

Full Polished Blades; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2323—3½ IN STAG HANDLE; TWO BLADES, 1 Large Clip Point and 1 Pen..... $13.00

No. K2628—3½ IN. STAG HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen..... 13.00

No. K2628S—3½ IN. GENUINE STAG HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen. 14.00

TWO BLADES, 1 Large Extra Heavy Spear Point and 1 Pen, Half Polished; Steel Bolster; German Silver Shield; Steel Lining.

Per Dozen

No. K7223—3¾ IN STAG HANDLE $13.00

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished; Polished Steel Bolster and Cap; German Silver Shield; Brass Lining.

Per Dozen

No. K2677S—3¾ IN. STAG HANDLE $11.00

No. K2678.

TWO BLADES, 1 Large Spear Point and 1 Pen German Silver Bolster, Cap and Shield; Brass Lining.

HALF POLISHED BLADES.

Per Dozen.

No. K2078—3¾ IN. STAG HANDLE $13.00

No. K2078S—3¾ IN. GENUINE STAG HANDLE 14.00

No. K2478—3½ IN. EBONY HANDLE 11.00

No. K2478—3½ IN. STAG HANDLE 12.00

FULL POLISHED BLADES.

Per Dozen

No. K2276—3¾ IN. BUFFALO HORN HANDLE $14.00

No. K2375.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Polished Steel Bolster and Cap, Brass Lining.

Per Dozen

No. K2375—3¾ IN. GRANADILLA HANDLE $9.50

No. K2376—3¾ IN. EBONY HANDLE 9.50

No. K2378—3¾ IN. STAG HANDLE 9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield, Brass Lining.

Per Dozen

No. K763—3½ IN. EBONY HANDLE $12.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 3 lbs.

—1934
POCKET KNIVES.

KEEN KUTTER

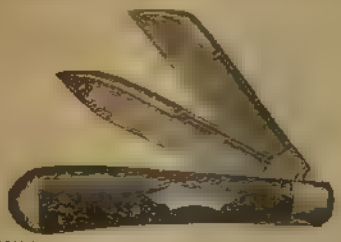
Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

TWO BLADES, 1 Large Saber Pattern Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield, Brass Lining.

No. K24933—3⅜ IN. GENUINE STAG HANDLE. Per Dozen, $13.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield; Brass Lining.

No. K2022—3⅜ IN. WHITE BONE HANDLE.....Per Dozen, $13.00



TWO BLADES 1 Large Spear Point and 1 Large Sheep Foot Point, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. K702—3⅛ IN. EBONY HANDLE.....Per Dozen, $13.00

No. K23538½.

TWO LARGE BLADES, 1 Cap and 1 Sheep Foot, Half Polished, German Silver Bolster and Cap; Brass Lining.

Per Dozen

No. K23538½—3⅜ IN STAG HANDLE.....$14.00

No. K23536½—3⅜ IN EBONY HANDLE..... 14.00

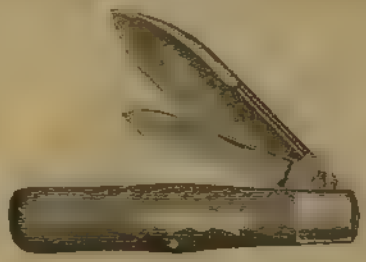
No. K2238.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Tip and Shield; Brass Lining.

Per Dozen

No. K22536—3⅜ IN EBONY HANDLE.....$13.00

No. K22538—3⅜ IN. STAG HANDLE..... 13.00



No. K2095

TWO BLADES, 1 Large Saber Pattern Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield; Brass Lining.

No. K2095—3¾ IN. GRANADILLA HANDLE.....Per Dozen, $12.00

No. K2458

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2458—3⅛ IN. STAG HANDLE.....$12.00

No. K2455—3⅛ IN. GRANADILLA HANDLE..... 11.00

No. K88.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K88—3⅜ IN. STAG HANDLE.....$11.00

No. K85—3⅜ IN. GRANADILLA HANDLE..... 10.00

No. K2245

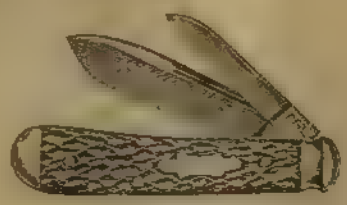
TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2245—3⅛ IN. GRANADILLA HANDLE.....$9.00

No. K2246—3⅛ IN. EBONY HANDLE..... 9.00

No. K2248—3⅛ IN STAG HANDLE..... 9.00



No. K1763.

TWO BLADES, 1 Large Spear Point and 1 Pen; Half Polished, German Silver Shield; Brass Lining.

Per Dozen

No. K1763—3⅛ IN. STAG HANDLE.....$9.50

No. K1663—3⅛ IN. GENUINE STAG HANDLE; German Silver Bolster and Cap..... 14.00

No. K2465.
EASY OPENER.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield, Brass Lining.

Per Dozen

No. K2465—3⅜ IN. COCOBOLO HANDLE.....$9.50

No. K2468—3⅜ IN. EBONY HANDLE..... 9.50

No. K2467—3⅜ IN. STAG HANDLE..... 9.50

No. K2865

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2865—3⅜ IN. COCOBOLO HANDLE.....$10.00

No. K2866—3⅜ IN. EBONY HANDLE..... 10.00

No. K2867—3⅜ IN. STAG HANDLE..... 10.00

No. K2445.

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2445—3⅜ IN. STAG HANDLE.....$8.50

No. K2441—3⅜ IN. EBONY HANDLE.....

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

— 1935

POCKET KNIVES.

KEEN KUTTER.

Highest Grade English Crucible Steel Blades Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

CELLULOID SHELL HANDLES

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

No. K3[illegible] 3 IN. STAG HANDLE; Per Dozen $9.50

No. K2710

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K2720—3 IN. COCOBOLO HANDLE ... $9.00

No. K2721—3 IN. EBONY HANDLE ... 9.00

No. K2723—3 IN. STAG HANDLE ... 9.00

No. K2722—3 IN. WHITE BONE HANDLE ... 11.00

No. K2861

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Shield.

German Silver Bolster, Brass Lining.

Per Dozen

No. K2861—3¾ IN. EBONY HANDLE ... $9.50

No. K2860—3¾ IN. COCOBOLO HANDLE ... 9.50

No. K2864—3¾ IN. STAG HANDLE ... 9.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolsters; Brass Lining.

Per Dozen

No. K01880/C—3¼ IN. CELLULOID HANDLE ... $9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolsters; Brass Lining.

Per Dozen

No. K02070/C—3¾ IN. CELLULOID HANDLE ... $9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Cap; Brass Lining.

Per Dozen

No. K2720/C—3 IN. CELLULOID HANDLE ... $9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Cap; Brass Lining.

Per Dozen

No. K7WCC—3¾ IN. CELLULOID HANDLE ... $9.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Cap; Brass Lining

Per Dozen

No. K2420/C—3½ IN. CELLULOID HANDLE ... $9.50

SILVER CELLULOID HANDLE.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster and Cap; Brass Lining

Per Dozen

No. K711/SC—3¾ IN. CURVED SILVER CELLULOID HANDLE.. $9.50

No. K[illegible]58.

Half Polished Blades, Polished Steel Bolster; Brass Lining.

Per Dozen

No. K2958—3¾ IN. STAG HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen.... $8.50

No. K1198—3¾ IN STAG HANDLE, 1 Large Spear Point Blade, Steel Lining ... 6.50

Half Polished Blades; German Silver Bolster and Shield; Brass Lining.

Per Dozen

No. K2138—3¾ IN. GENUINE STAG HANDLE; TWO BLADES, 1 Large Spear Point, 1 Pen... $13.00

No. K2138½—3¾ IN. GENUINE STAG HANDLE, TWO BLADES, 1 Large Clip Point, 1 Pen.... 13.00

No. K2433.

TWO BLADES, 1 Large Spear Point and 1 Pen Half Polished; German Silver Bolster, Cap and Shield; Brass Lining

Per Dozen

No. K2433—3¾ IN. STAG HANDLE ... $9.50

No. K2430—3¾ IN. GRANADILLA HANDLE ... [illegible]

No. K2431—3¾ IN. EBONY HANDLE ... 9.50

No. K69½

TWO BLADES, 1 Large Saber Pattern Clip Point and 1 Pen, Half Polished; German Silver Bolster, Clip and Shield; Brass Lining

Per Dozen

No. K69½—3¾ IN. GRANADILLA HANDLE ... $9.50

No. K63½—3¾ IN. STAG HANDLE ... 11.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Hand Engraved Aluminum Bolster and Cap; German Silver Shield; Brass Lining.

Per Dozen

No. K2433A—3¾ IN. STAG HANDLE ... $12.00

We want to handle your MAIL ORDERS in just the way you want them handled.

We give you the same low prices on MAIL ORDERS as made by our salesmen.

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

1936
POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K1240.

TWO BLADES, 1 Large Spear Point and 1 Pen; Half Polished; German Silver Bolster and Shield; Brass Lining.

Per Dozen

No. K1240—3¼ IN. STAG HANDLE $9.50

No. K1211—3¼ IN. EBONY HANDLE 9.50

No. K77.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining.

Per Dozen

No. K77—3⅜ IN. EBONY HANDLE $9.50

No. K78—3⅜ IN. STAG HANDLE 9.50

No. K2423.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster Cap and Shield, Brass Lining.

Per Dozen

No. K2423—3¼ IN. STAG HANDLE $9.00

No. K2420—3¼ IN. GRANADILLA HANDLE 9.00

No. K2421—3¼ IN. EBONY HANDLE 9.50

No. K2460.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, Polished Steel Bolster, German Silver Shield, Brass Lining.

Per Dozen

No. K2460—3⅜ IN. COCOBOLO HANDLE $8.00

No. K2461—3⅜ IN. EBONY HANDLE 8.00

No. K2462—3⅜ IN. STAG HANDLE 9.50

No. K2505—3¼ IN. COCOBOLO DLE 9.50

No. K2233.

Half Polished Blades, Steel Bolster, German Silver Shield; Brass Lining.

Per Dozen

No. K2233—3½ IN. STAG HANDLE TWO BLADES, 1 Large Spear Point and 1 Pen..... $9.50

No. K2833½—3½ IN STAG HANDLE, TWO BLADES, 1 Large Clip Point and 1 Pen..... 9.50

No. K2843—3½ IN. STAG HANDLE. TWO BLADES, 1 Large Sheep Foot Point and 1 Pen..... 9.50

No. K2813—3½ IN GENUINE STAG HANDLE; TWO BLADES 1 Large Sheep Foot Point and 1 Pen 12.00

No. K2811.

TWO BLADES, 1 Large [illegible] Pattern Spear Point and 1 Pen Half Polished; Polished Steel Bolster German Silver Shield, Brass Lining.

Per Dozen

No. K2811—3 [illegible] IN EBONY HANDLE $9.50

No. K2813—3¼ IN STAG HANDLE 9.50

No. K2810¾.

TWO BLADES, 1 Large Saber Pattern Clip Point and 1 Pen, Half Polished; Polished Steel Bolster, German Silver Shield, Brass Lining.

Per Dozen.

No. K2810¾—3½ IN COCOBOLO HANDLE $9.50

No. K2813½—3½ IN STAG HANDLE 9.50

No. K1219

Half Polished Blades; Polished Steel Bolster, German Silver Shield, Brass Lining.

Per Dozen

No. K1219—3⅜ IN. WHITE BONE HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen..... $9.50

No. K1219½—3⅜ IN WHITE BONE HANDLE, TWO BLADES, 1 Large Clip Point and 1 Pen..... 9.50

No. K1WE.

TWO BLADES, 1 Large Spear Point and 1 Pen; Full Polished German Silver Bolsters and Shield; Brass Lining

Per Dozen

No. K1WE—3¼ IN. EBONY HANDLE $8.50

No. K77S—3¼ IN CURVED BUFFALO HORN HANDLE..... 9.50

TWO BLADES, 1 Large Spear Point and 1 Pen Half Polished; Polished Steel [illegible] German Silver Shield; Brass Lining

No. K6WCS—3¼ IN. STAG HANDLE.....Per Dozen, $8.50

TWO BLADES 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield; Brass Lining.

No. K218—3¾ IN. STAG HANDLE Per Dozen $8.50

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Shield; Brass Lining

No. K27404—3¾ IN. BUFFALO HORN HANDLE..Per Dozen, $9.00

No. K2166.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Polished Steel Bolster, German Silver Shield; Brass Lining.

Per Dozen

No. K2166—3¾ IN. EBONY HANDLE $9.50

No. K2168—3¾ IN. STAG HANDLE 9.50

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

No. K2850

Half Polished Blades, [illegible] Silver Bolster and Shield [illegible]
TWO BLADES, 1 Large [illegible] and 1 Pen

	Per Dozen
No. K2850—[illegible] IN. GRANADILLA HANDLE	$9.50
No. K2851—3¼ IN. EBONY HANDLE	9.50
No. K2853—3¾ IN. STAG HANDLE	11.00
No. K28535—3¾ IN. GENUINE STAG HANDLE	13.00

TWO BLADES, 1 Large Clip Point and 1 Pen.

	Per Dozen
No. K2851½—3¼ IN. EBONY HANDLE	9.50
No. K2853½—3¾ IN. STAG HANDLE	11.00

No. K50.

Glazed Finish; German Silver Shield, Polished Steel Bolster and Cap; Brass Lining

TWO BLADES, 1 Large Spear Point and 1 Pen.

	Per Dozen
No. K50—3¾ IN. ROSEWOOD HANDLE	$8.50
No. K51—3¾ IN. EBONY HANDLE	8.50
No. K53—3¾ IN. STAG HANDLE	8.50

TWO BLADES, 1 Large Clip Point and 1 Pen.

	Per Dozen
No. K53½—3¾ IN. STAG HANDLE	$8.00

Half Polished Blades; German Silver Shield, Bolster and Cap; Brass Lining.

TWO BLADES, 1 Large Spear Point and 1 Pen.

	Per Dozen
No. K2780—3¾ IN. GRANADILLA HANDLE	[illegible]
No. K2781—3¾ IN. EBONY HANDLE	9.50
No. K2783—3¾ IN. STAG HANDLE	9.50
No. K2785—3¾ IN. GENUINE [illegible] HANDLE	12.00
No. K2850—3¾ IN. [illegible] HANDLE	12.00

TWO BLADES, 1 Large Clip Point and 1 Pen.

	Per Dozen
No. K2780½—3¾ IN. GRANADILLA HANDLE	$9.50
No. K2781½—3¾ IN. EBONY HANDLE	9.50
No. K2783½—3¾ IN. STAG HANDLE	9.00

TWO BLADES, 1 Large Sheep Foot and 1 Pen.

	Per Dozen
No. K2783—3¾ IN. STAG HANDLE	$9.50

No. K[illegible]

LAST [illegible] NER

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster and Shield, [illegible] Lining

GERMAN SILVER CAP.

	Per Dozen
No. K[illegible]—3¾ IN. STAG HANDLE	$9.50
No. K95—3¾ IN. COCOBOLO HANDLE	[illegible]

WITHOUT CAP

No. K83—3¾ IN. STAG HANDLE	8.50
No. K90—3¾ IN. COCOBOLO HANDLE	8.50
No. K2719—3¾ IN. GERMAN SILVER HANDLE	9.00

No. K7070.

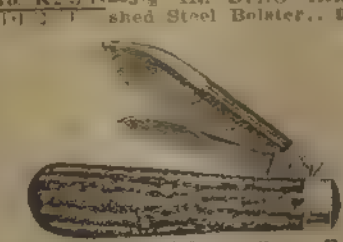
TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Steel Bolster [illegible], German Silver Shield, Brass Lining.

	Per Dozen
No. K7070—3½ IN. GRANADILLA HANDLE	$8.50
No. K7073—3½ IN. STAG HANDLE	8.50

No. K2[illegible]

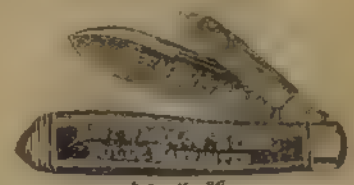
TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Shield; Brass Lining.

	Per Dozen
No. K20755—3¾ IN. COCOBOLO HANDLE, German Silver Bolster	$9.50
No. K20756—3¾ IN. EBONY HANDLE, German Silver Bolster	9.50
No. K2075[illegible]—3¾ IN. STAG HANDLE, [illegible]shed Steel Bolster	9.50



TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; Polished Steel Bolster; Steel Lining

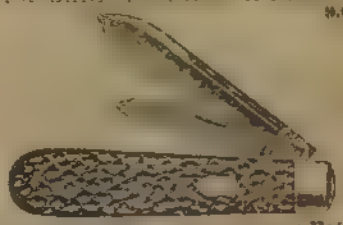
	Per Dozen
No. K7008—3¾ IN. GENUINE STAG HANDLE	$9.50



No. K736

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, [illegible] ing.

	Per Dozen
No. K736—3½ IN. GERMAN SILVER SATIN FINISH HANDLE	$9.00
No. K740—3½ IN. GERMAN SILVER [illegible] FINISH HANDLE	9.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished Steel Bolster, German Silver Shield, Brass Lining.

	Per Dozen
No. K2705—3¾ IN. STAG HANDLE	$9.00

No. K2085.

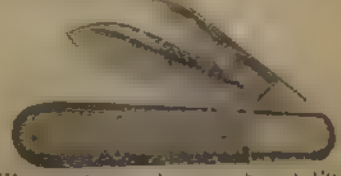
TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Shield

	Per Dozen
No. K2085—3½ IN. ROSEWOOD HANDLE, German Silver Bolster, Brass Lining	$8.50
No. K7170—3½ IN. ROSEWOOD HANDLE, Polished Steel Bolster, Steel Lining	8.00

No. K2909.

Half Polished Blades, Brass Lining.

	Per Dozen
No. K2909—3½ IN. GERMAN SILVER HANDLE; TWO BLADES, 1 Large Spear Point, 1 Pen	$9.00
No. K2909½—3½ IN. GERMAN SILVER HANDLE; TWO BLADES, 1 Large Spey Point, 1 Pen	9.00



TWO BLADES, 1 Large Spear Point and 1 Pen, Glazed Finish; Polished Steel Bolster [illegible]

	Per Dozen
No. K2[illegible]—3¾ IN. COCOBOLO [illegible]	$4.80

[illegible] half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

— 1938 —

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades Uniformly Tempered SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

No. K1215

TWO BLADES, 1 Large and 1 Pen, Half Polished Blades, Polished Steel Bolster; German Silver Shield; Steel Lining.

Per Dozen

No. K1215—3½ IN. COCOBOLO HANDLE; Spear Point Large Blade $7.50

No. K1215½—3½ IN. COCOBOLO HANDLE; Sheep Foot Point Large Blade 7.50

No. K1215¾—3½ IN. COCOBOLO HANDLE; Clip Point Large Blade 7.50

TWO BLADES, 1 Large Saber Pattern and 1 Pen.

Per Dozen

No. K1315—3½ IN. COCOBOLO HANDLE; Spear Point Large Blade $7.50

No. K1315½—3½ IN. COCOBOLO HANDLE; Clip Point Large Blade 7.50

No. K230

TWO BLADES, 1 Large and 1 Pen, Glazed Finish, Polished Steel Bolster; German Silver Shield; Steel Lining.

Per Dozen

No. K2305—3⅝ IN. COCOBOLO HANDLE; Spear Point Large Blade $5.40

No. K2305½—3⅝ IN. COCOBOLO HANDLE; Clip Point Large Blade 5.40

No. K2300—3⅝ IN. EBONY HANDLE; Spear Point Large Blade 5.40

No. K2300¾—3⅝ IN. EBONY HANDLE; Clip Point Large Blade. 5.40

No. K2578.

TWO BLADES, 1 Large and 1 Pen, Half Polished; Steel Bolster and Lining.

Per Dozen

No. K2578—3⅝ IN STAG HANDLE Spear Point Large Blade..... $5.40

No. K2578½—3⅝ IN. STAG HANDLE, Sheep Foot Point Large Blade 5.40

No. K2578¾—3⅝ IN. STAG HANDLE, Clip Point Large Blade. 5.40

ONE LARGE CLIP BLADE; Glazed Finish; Polished Steel Bolster and Cap; Brass Lining.

Per Dozen

No. K1884¾—5 IN. STAG HANDLE $6.50

No. K601

BARLOW PATTERN.

ONE LARGE BLADE, Glazed Finish, Polished Steel Bolster; Steel Lining.

Per Dozen

No. K601—5 IN. BROWN BONE HANDLE, Clip Point Blade..... $6.90

No. K600—5 IN. BROWN BONE HANDLE; Spear Point Blade..... 6.90

No. K105.

BARLOW PATTERN

TWO BLADES, 1 Large and 1 Pen Full Polished; Polished Steel Bolster; Steel Lining.

Per Dozen

No. K105—3¼ IN STAG HANDLE Spear Point Large Blade..... $8.00

No. K205—3¼ IN. STAG HANDLE, Sheep Foot Point Large Blade 8.00

No. K305—3¼ IN. STAG HANDLE; Clip Point Large Blade..... 8.00

No. K405—3¼ IN. STAG HANDLE, Razor Point Large Blade..... 8.00

No. K505—3¼ IN STAG HANDLE Spey Point Large Blade..... 8.00

TWO BLADES Large and 1 Pen Half Polished, Polished Steel Bolster; Steel Lining.

Per Dozen

No. K2533—3⅝ IN. STAG HANDLE Spear Point Large Blade..... $9.00

No. K2533½—3⅝ IN. STAG HANDLE; Spey Point Large Blade. 9.00

No. K2533—3⅝ IN. STAG HANDLE, Sheep Foot Point, Large Blade 9.00

No. K2533¾—3⅝ IN. STAG HANDLE; Clip Point Large Blade.. 9.00

No. K2534—3⅝ IN. STAG HANDLE Razor Point Large Blade..... 9.00

No. K510

BARLOW PATTERN.

TWO BLADES, 1 Large and 1 Pen, Glazed Finish; Polished Steel Bolster; Steel Lining.

Per Dozen

No. K510—3⅝ IN. BROWN BONE HANDLE; Spear Point Large Blade $5.40

No. K511—3⅝ IN. BROWN BONE HANDLE; Clip Point Large Blade 5.40

No. K512—3⅝ IN. BROWN BONE HANDLE; Spey Point Large Blade 5.40

No. K513—3⅝ IN. BROWN BONE HANDLE Razor Point Large Blade 5.40

No. K514—3⅝ IN. WHITE BONE HANDLE Spear Point Large Blade 7.50

No. K500

ONE LARGE BLADE, Glazed Finish; Polished Steel Bolster; Steel Lining

Per Dozen

No. K500—3⅝ IN. BROWN BONE HANDLE; Spear Point Blade, $3.90

No. K1883—3⅝ IN. BROWN BONE HANDLE; Razor Point Blade.. 3.80

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

—1939—

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades Carefully Tempered, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE.

No. K2515

TWO BLADES, 1 Large Spear Point and 1 Pen Glazed Finish; 11 in. Polished Steel Chain and Clasp.

Per Dozen

No. K2515—3¼ IN. COCOBOLO HANDLE, Polished Steel Bolster; Steel Lining $4.80

No. K2945—3¼ IN. GRANADILLA HANDLE; German Silver Bolster and Shield, Brass Lining..... 8.00

No. K2583.

TWO BLADES, 1 Large and 1 Pen. Glazed Finish, Polished Steel Bolster; German Silver Shield; Steel Lining

Per Dozen

No. K2583—3¼ IN. STAG HANDLE, Spear Point Large Blade $5.40

No. K2584—3¼ IN. STAG HANDLE, Sheep Foot Point Large Blade 5.40

No. K2580—3¼ IN. COCOBOLO HANDLE, Spear Point Large Blade 5.40

Glazed Finish, Polished Steel Bolster; Steel Lining

Per Dozen

No. K85—3¼ IN. STAG HANDLE, Clip Point Large Blade $4.80

No. K6—3¼ IN. STAG HANDLE, Spear Point Large Blade..... 4.80

TWO BLADES, 1 Large and 1 Pen. Glazed Finish, Polished Steel Bolster, Steel Lining

Per Dozen

No. K5—3¼ IN. COCOBOLO HANDLE Spear Point Large Blade $4.80

No. K5½—3¼ IN COCOBOLO HANDLE Clip Point Large Blade . 4.80

No. K1115

ONE LARGE BLADE, Half Polished; Polished Steel [illegible] German Silver Shield, Steel Lining

Per Dozen

No. K1115—3½ IN. COCOBOLO HANDLE; Spear Point Blade .$4.80

No. K1115½—3½ IN. COCOBOLO HANDLE Sheep Foot Point Blade 4.80

No. K1115¾—3½ IN. COCOBOLO HANDLE Clip Point Blade... 4.80

No. K1540

Half Polished Blades, Steel Bolster; German Silver Shield Steel Lining

Per Dozen

No. K1540—3½ IN. COCOBOLO HANDLE; ONE LARGE SPEY BLADE . . $4.80

No. K2540—3½ IN. COCOBOLO HANDLE; TWO BLADES, 1 Large Spey Point and 1 Pen . . . 7.50

Half Polished Blades [illegible] Silver Bolster, Brass Lining

Per Dozen

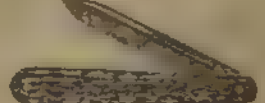
No. K2801—[illegible] IN STAG HANDLE; TWO BLADES 1 Large Spey Point and 1 Pen $9.50

Per Dozen

No. K5820—2⅞ IN GERMAN SILVER HANDLE; ONE LARGE BLADE, Sheep Foot Point, Full Polished $4.80

No. K5825—2⅞ IN GERMAN SILVER HANDLE, ONE LARGE SPEAR POINT BLADE, Full Polished 4.50

No. K7820—2⅞ IN. GERMAN SILVER HANDLE, TWO BLADES, 1 Large Sheep Foot Point and 1 Pen Half Polished..... 6.00



ONE LARGE SPEAR POINT BLADE, Half Polished, Brass Lining.

No. K10—2⅝ IN. STAG HANDLE

Per Dozen $4.80

ONE PEN BLADE, Full Polished; Polished Steel Bolster; Brass Lining.

No. K10078—2 IN. STAG HANDLE; Per Dozen $4.80

No. K1759.

3⅛ in. EMBOSSED IRON HANDLE, Black Enameled, Glazed Finish Blades.

Per Dozen

No. K1780—One Large Spear Point Blade $4.30

No. K1787—One Large Spey Point Blade 4.30

No. K2787

3¾ in. EMBOSSED IRON HANDLE, Black Enameled, Glazed Finish Blades.

Per Dozen

No. K2787—Two Blades, 1 Large Spey Point and 1 Pen..... $7.50

No. K2782—Two Blades, 1 Large Spear Point and 1 Pen..... 7.50

Per Dozen

No. 0125—3 IN. ROSEWOOD HANDLE ONE LARGE SPEAR POINT BLADE, Glazed Finish; Polished Steel Polster; Steel Lining....$2.50

One Dozen in a Cardboard Box.

One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs.

— 1940 —

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE.

ONE BLADE BUDDING KNIFE

FIXED IVORY BLADE for Grafting; German Silver Bolster; Brass Lining; Half Polished Blade

Per Dozen

No. K1421—5⅛ IN. EBONY HANDLE $14.00

ONE BLADE BUDDING KNIFE

Per Dozen

No. K1235—4 IN. IVORY HANDLE Glazed Finish Blade..... $15.00

ONE BLADE BUDDING KNIFE

No. K1606—3¼ IN. EBONY HANDLE; German Silver Bolster; Brass Lining.....Per Dozen, $8.50

CALIFORNIA BUDDING KNIFE.

ONE BLADE, Half Polished, German Silver Bolster and Shield; Brass Lining

No. K1825—3⅝ IN. GRANADILLA HANDLE.....Per Dozen, $9.00

FLORIST'S KNIFE

TWO LARGE BLADES, 1 Square Grafting, 1 Budding, Half Polished Steel Bolsters; Brass Lining.

Per Dozen

No. K028755—3⅝ IN. GRANADILLA HANDLE $9.50

COTTON KNIFE

ONE BLADE, Glazed Finish, Steel Bolster and Lining

No. K1150—4½ IN ROSEWOOD HANDLE.....Per Dozen, $9.00

PRUNING KNIFE

TWO LARGE BLADES, 1 Pruning and 1 Budding Half Polished; Steel Bolsters; German Silver Shield; Steel Lining

Per Dozen

No. K0211 [illegible] IN STAG HANDLE $17.00

CALIFORNIA PRUNING KNIFE

No. K1435—4½ IN COCOBOLO HANDLE; 1 Large Blade, Glazed Finish; Copper Cap and Polished Steel Bolster; Brass Lining..... Per Dozen $12.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 3½ lbs.

PRUNING KNIFE

ONE LARGE BLADE, Glazed Finish, Steel Bolster and Lining.

Per Dozen

No. K135—4 IN COCOBOLO HANDLE $9.50

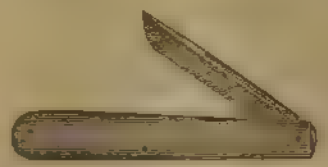
No. K136—4 IN EBONY HANDLE 9.50

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

BABY PRUNING KNIFE

Per Dozen

No. K1790/C—3¾ IN. COCOBOLO HANDLE, 1 Large Blade, Glazed Finish; Steel Bolster and Lining; German Silver Shield.....$5.40



ONE BLADE CORN KNIFE, Brass Lining, Full Polished Blade

No. K1021—3⅜ IN. IVORY HANDLE .....Per Dozen, $15.00

No. K02220.

OFFICE KNIFE

TWO LARGE BLADES, 1 Spear and 1 Eraser Point, Half Polished, Brass Lining.

No. K02220—3¾ IN. WHITE CELLOID HANDLE, Etching on Handle.....Per Dozen, $15.00

OFFICE KNIVES.

STEEL ERASERS OR OFFICE KNIVES.

ONE BLADE, 2⅛ IN. Long, Full Polished, Length over all about 5⅝ in

No. K100—3⅝ IN. FIXED WHITE HANDLE.....Per Dozen $8.50

ONE BLADE 2⅛ in. Long, Full Polished, Length over all about 5⅝ in

No. K300—3⅝ IN FIXED WHITE BONE HANDLE..Per Dozen, $12.00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

18 SIZE

TRADE MARK

TRADE MARK

JAS. BOSS OR CRESCENT
NO 2 35 18 SIZE HUNTING $ 3 00
NO 2 3 18 SIZE SCREW B & B 1 40

JAS. BOSS OR CRESCENT
NO 2 38 18 SIZE HUNTING $ 3 00
NO 2 39 18 SIZE SCREW B & B 1 40

NO 2140 18 SIZE HUNTING $15 00
NO 2141 18 SIZE SCREW B & B 15 00

NO. 2140. 18 SIZE HUNTING $15 00
NO 2141 18 SIZE SCREW B & B 15 00

NO 2 46 18 SIZE HUNTING $15 00
NO 46 18 SIZE SCREW B & B 15 00

NO 2 18 SIZE HUNTING $ 3 00
NO 2 18 SIZE SCREW B & B 3 00

NO. 2140. 18 SIZE HUNTING $15 00
NO 2141 18 SIZE SCREW B. & B 15 00

NO. 2158. 18 SIZE HUNTING $ 00
NO. 2161 18 SIZE SCREW B & B 3 00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

18 SIZE SWING RING AND SCREW BACK AND BEZEL DUST PROOF

TRADE MARK

TRADE MARK.

JAS. BOSS ONLY
JAS. BOSS OR CRESCENT
NO 2192 18 SIZE SWING RING $ 4.20
NO 2 x 8 18 SIZE SCREW B. & B. 4.40

JAS. BOSS OR CRESCENT
NO 2 64 18 SIZE SWING RING $4.20
NO 2 56 18 SIZE SCREW B. & B. 4.40

NO 2158 18 SIZE SWING RING $ 3.60
NO 2168 18 SIZE SCREW B. & B. 4

NO 166 18 SIZE SW. NG RING $[illegible]
NO 167 18 SIZE SCREW B. & B. 15.00

NO 2 69 18 SIZE SWING RING $17.00
NO 2 [illegible] 18 SIZE SCREW B. & B. 5.00

NO 2 [illegible] 18 SIZE SWING RING $ 7.60
NO 2 [illegible] 18 SIZE SCREW B. & B. 5.80

NO 2 [illegible] 18 SIZE SWING RING 41.00
NO 2 [illegible] 18 SIZE SCREW B. & B. 5.60

NO [illegible] 18 SIZE SWING RING $17.00
NO [illegible] 18 SIZE SCREW B. & B. 5.60

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

16 SIZE

JAS. BOSS OR CRESCENT

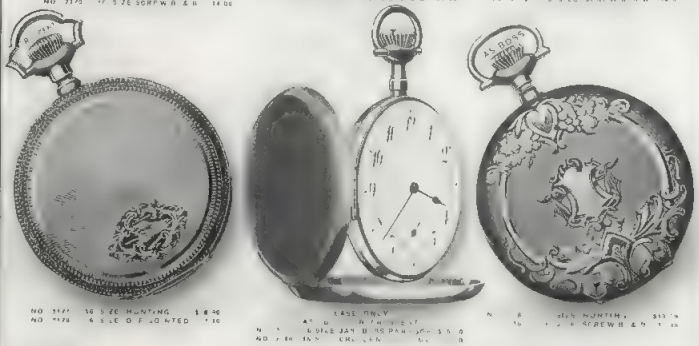
NO. 2159 16 SIZE HUNTING $14.00
NO. 2160 16 SIZE OPEN FACE 14.00
NO. 2170 16 SIZE SCREW B. & B. 14.00

JAS. BOSS OR CRESCENT

NO. 2171 16 SIZE HUNTING $14.00
NO. 2172 16 SIZE OPEN FACE 14.00
NO. 2175 16 SIZE SCREW B. & B. 14.00

JAS. BOSS OR CRESCENT

NO. 2174 16 SIZE HUNTING $14.00
NO. 2176 16 SIZE OPEN FACE 14.00
NO. 2176 16 SIZE SCREW B. & B. 14.00



NO. 2127 16 SIZE HUNTING $ 8.00
NO. 2128 6 SIZE OPEN FACE 7.00

CASE ONLY

NO. 2 16 SIZE HUNTING $13.00
NO. 2 6 SIZE OPEN FACE 7.00
NO. 2 SCREW B. & B. 7.00

NO. 284 6 SIZE HUNTING $ 8.00
NO. 284 6 SIZE SCREW B. & B. 7.00

NO. 2 16 SIZE HUNTING $13.00
NO. 2 6 SIZE SCREW B. & B. 7.00

NO. 2 16 SIZE HUNTING $7.00
NO. 2 6 SIZE SCREW B. & B. 7.00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

16 SIZE

TRADE MARK

TRADE MARK

NO 2184 16 SIZE HUNTING $ 18 00
NO 2188 16 SIZE SCREW B & B 15 00

NO 2189 16 SIZE HUNT NO $ 18 00
NO 2190 16 SIZE SCREW B & B 15 00

NO 2191 16 SIZE HUNTING $18 00
NO 2192 16 SIZE SCREW B & B 15 00

NO 2193 16 SIZE HUNTING $ 18 00
NO 2197 16 SIZE SCREW B & B 15 00

NO 2 16 SIZE HUNT NO $18 00
NO 2 16 SIZE SCREW B & B 15 00

NO 2 16 SIZE HUNTING $18 00
NO 2 16 SIZE SCREW B & B 15 00

NO 2 16 SIZE HUNT NO $ 18 00
NO 2 16 SIZE SCREW B & B 15 00

NO 2201 16 SIZE HUNT NO $18 00
NO 2202 16 SIZE SCREW B & B 15 00

NO 2203 16 SIZE HUNT NO $18 00
NO 2204 16 SIZE SCREW B & B 15 00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

16 SIZE

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

16 SIZE

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

16 SIZE SWING RING AND SCREW BACK AND BEZEL DUST PROOF

TRADE MARK.

CASE No. 1

JAS. BOSS OR CRESCENT.

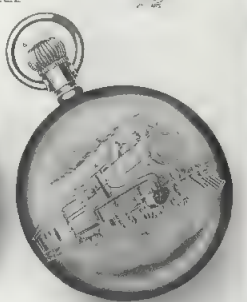
No. 7241. 16 SIZE SWING RING $15.00

No. 7242. 16 SIZE SCREW B. & B. 14.00

JAS. BOSS OR CRESCENT

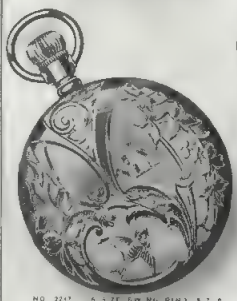
NO. 7243. 16 SIZE SWING RING $15.00

NO. 7244. 16 SIZE SCREW B. & B. 14.00



NO. 2246. 16 SIZE SWING RING $1[illegible]

NO. 2246. 16 SIZE SCREW B. & B. 15.00



NO. 2247. 16 SIZE SWING RING $1[illegible]

NO. 748. 16 SIZE SCREW B. & B. 15.00

NO. 2249. 16 SIZE SWING RING $17.10

NO. 2250. 16 SIZE SCREW B. & B. 15.30

NO. 2251. 16 SIZE SWING RING $1[illegible].10

NO. 2252. 16 SIZE SCREW B. & B. 1[illegible].00

NO. 2253. 16 SIZE SWING RING $ 7.10

NO. 2254. 16 SIZE SCREW B. & B. 6.00

NO. [illegible]. 16 SIZE SWING RING $ 7.[illegible]

NO. [illegible]. 16 SIZE SCREW B. & B. 6.[illegible]

NO. 2257. 16 SIZE SWING RING $ 7.[illegible]

NO. 2258. 16 SIZE SCREW B. & B. 6.00

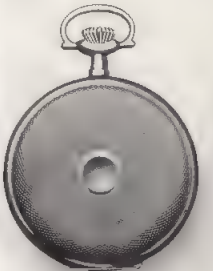
JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

12 SIZE

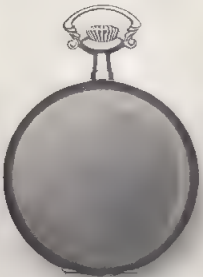
TRADE MARK

TRADE MARK



JAS BOSS OR CRESCENT

NO. 2254 12 SIZE HUNTING $14.00
NO. 2260. 12 SIZE O. F. JOINTED 13.10
NO 2261 12 SIZE SCREW B & B. 12.60



JAS BOSS OR CRESCENT

NO. 2262. 12 SIZE HUNTING . $14.00
NO. 2263. 12 SIZE O. F JOINTED 13.10
NO. 2264. 12 SIZE SCREW B. & B 12.60

JAS BOSS OR CRESCENT

NO. 2265 12 SIZE HUNTING . $14.00
NO. 2266 12 SIZE O. F JOINTED 13.10

NO. 2268. 12 SIZE HUNTING $15.00
NO 2269. 12 SIZE SCREW B & B 14.00

NO 2270. 12 SIZE HUNT NO $15.00
NO 2271. 12 SIZE O F JOINTED 14.00

NO. 2272 12 SIZE HUNTING $15.00
NO 2273 12 SIZE O F JOINTED 14.00
NO 2274. 12 SIZE SCREW B & B 14.00

NO. 2275. 12 SIZE HUNTING $15.00
NO. 2276. 12 SIZE SCREW B & B 13.00

GOLD INCRD.

. NO. 2277. 12 SIZE HUNT NO. $15.00

GOLD INCRD

NO. 2278. 12 SIZE HUNTING. $20.00

TRADE MARK

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

12 SIZE

TRADE MARK

NO 2249 12 SIZE HUNTING $ 5.80
NO 249 12 SIZE SCREW B & B 4.00

NO 2281 7 SIZE HUNTING $ 5.80
NO 2282 7 SIZE SCREW B & B 4.00

NO 2283 7 SIZE HUNTING $15.80
NO 784 7 SIZE SCREW B & B 14.00

NO 2249 12 SIZE HUNTING $ 5.80
NO 249 12 SIZE SCREW B & B 4.00

NO 2281 12 SIZE HUNTING $15.80
NO 2282 7 SIZE SCREW B & B 4.00

NO 2283 7 SIZE HUNTING $14.80
NO 784 7 SIZE SCREW B & B 4.00

NO. 2291 12 SIZE HUNTING $ 5.80
NO. 2292 12 SIZE SCREW B & B 4.00

NO 2293 7 SIZE HUNTING $15.80
NO 2294 7 SIZE SCREW B & B 4.00

NO 2295 7 SIZE HUNTING $ 5.80
NO 2296 7 SIZE SCREW B & B 4.00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

12 SIZE

TRADE MARK

TRADE MARK

NO 2297 12 SIZE HUNTING $15.80
NO 2298 12 SIZE SCREW B & B 14.00

NO 2299 12 SIZE HUNTING 5.80
NO 2300 12 SIZE SCREW B & B 4.60

NO 2301 12 SIZE HUNTING $ 5.8
NO 2302 12 SIZE SCREW B & B 4.90

NO 2303 12 SIZE HUNTING $15.80
NO 2304 12 SIZE SCREW B & B 14

NO 2305 12 SIZE HUNTING $15.80
NO 2306 12 SIZE SCREW B & B 14.00

NO 2307 12 SIZE HUNTING $15.80
NO 2308 12 SIZE SCREW B & B 14.00

NO 2309 12 SIZE HUNTING $15.80
NO 2310 12 SIZE SCREW B & B 14.00

NO 2311 12 SIZE HUNTING $ 5.8
NO 2312 12 SIZE SCREW B & B 4.00

NO 2313 12 SIZE HUNTING $15.80
NO 2314 12 SIZE SCREW B & B 14.00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

12 SIZE

TRADE MARK

TRADE MARK.

NO 2315. 12 SIZE PARAGON $ 4 00

CASE ONLY
JAS. BOSS OR CRESCENT
NO 2316, 12 SIZE JAS BOSS PARAGON $ 2 60
NO 2317, 12 SIZE CRESCENT GALLMET 12 60

NO 2319, 12 SIZE PARAGON $14 00

6 SIZE

NO 2319, 12 SIZE HUNTING $14 00

NO 2320, 6 SIZE HUNTING $14 00

NO 2321, 6 SIZE HUNTING $ 8 00

NO 2322, 6 SIZE HUNTING $ 8 00

NO 2323, 12 SIZE HUNTING $14 00

NO 2324, 6 SIZE HUNTING $14 00

NO 2325, 6 SIZE HUNTING $ 8 00

NO 2326, 6 SIZE HUNTING $ 8 00

JAS. BOSS AND CRESCENT

GOLD FILLED WATCH CASES

O SIZE

TRADE MARK

TRADE MARK

CASE ONLY.
JAS. BOSS OR CRESCENT
NO 2327 O SIZE O F QUEEN $5.00

JAS. BOSS OR CRESCENT
NO. 2328. O SIZE HUNT NO $11.70
NO. 2329. O SIZE O F (CAP) 10.50

NO 2330 O SIZE HUNT NO $1 70

NO 2331 O SIZE HUNTING $1 70

JAS BOSS OR CRESCENT
NO 2332 O SIZE HUNTING $1 70

JAS BOSS OR CRESCENT
NO 2333 O SIZE HUNT NO $ 3 10
NO 2334 O SIZE O F QUEEN 5 00

NO 2335 O SIZE HUNTING $11 [illegible]

NO 2336 O SIZE HUNT NO $1 [illegible]
NO 2337 O SIZE O F QUEEN 5 00

NO 2338 O SIZE HUNT NO $12 [illegible]
NO 2339 O SIZE O F QUEEN 9 00

NO 2340 O SIZE HUNT NO $ 3 10

NO 2341 O SIZE HUNTING $12 10

NO 2342 O SIZE HUNTING $12.10
NO 2343 O SIZE O F QUEEN 9 00

NO 2344 O SIZE HUNT NO $ 3 10

NO 2345 O SIZE HUNT NO $12.10
NO. 2345. O SIZE O F QUEEN 9 00

NO 2347 O SIZE HUNT NO $12 10

NO 2348 O SIZE HUNTING $ 0

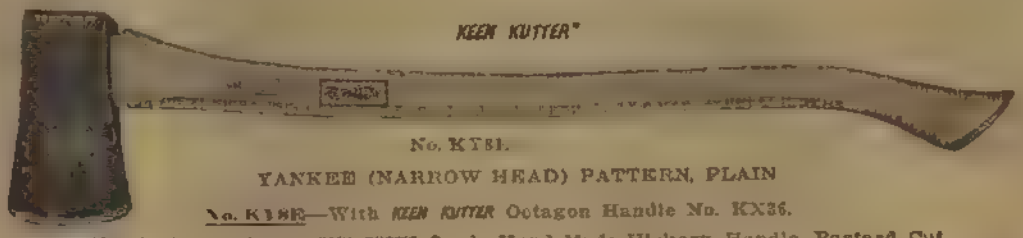
TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED

AXES.

KEEN KUTTER SINGLE BIT.

HAND FORGED FROM ONE SOLID PIECE OF HIGHEST GRADE CRUCIBLE STEEL, Specially Hardened Polls; HAND HAMMERED HAND WROUGHT BITS, Accurately and Uniformly Pitched Eyes, Carefully Sharpened and Polished Cutting Edge, Natural Lustre Hand Forged Finish. Each Axe is Lacquered Making it Rust proof. ***KEEN KUTTER*** Trade Mark Design Stamped in Deep.

All our Handled Axes have Handles FASTENED WITH OUR **SIMMONS** PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KT81.

YANKEE (NARROW HEAD) PATTERN, PLAIN

No. KT8E—With *KEEN KUTTER* Octagon Handle No. KX36.

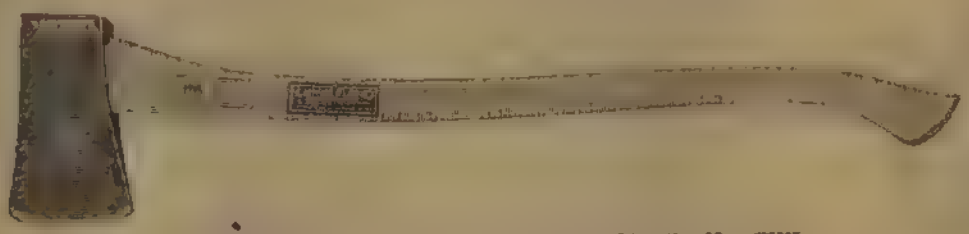
Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	74	81
Per dozen	$20.50	30.00	30.50	31.00

No. KY8 9—With Cumberland Oval Handle No. CAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	74	81
Per dozen	$28.00	28.50	29.00	29.50



No. KY8 9—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	74	81
Per dozen	$26.00	26.50	27.00	27.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KY8—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	49	54	58	64
Per dozen	$21.00	21.50	22.00	22.50

One Dozen in a Wood Box.

Perfectly balanced and properly handled by men who know how to handle an Axe—it falls true to the woodchopper's stroke—no unsightly creases in the cut. Unless you appreciate what is good and expect to take just pride in a fine tool, pass it by, for the *KEEN KUTTER* Axe is built for the man who knows what is good and who always wants the best.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped on the Poll.

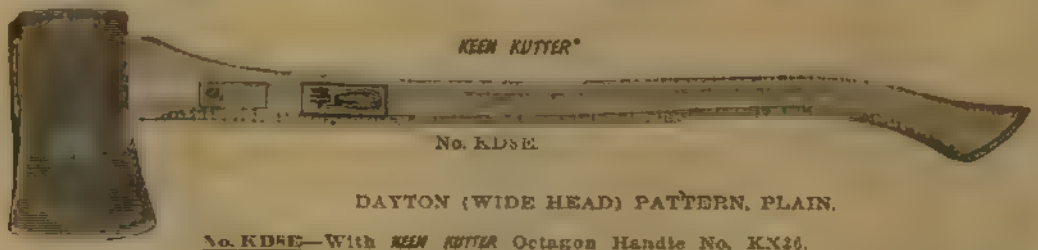
TRADE MARK
E. C. SIMMONS' KEEN KUTTER.
REGISTERED

AXES.

KEEN KUTTER* SINGLE BIT.

HAND FORGED FROM ONE SOLID PIECE OF HIGHEST GRADE CRUCIBLE STEEL. Specially Hardened Polls; HAND HAMMERED AND HAND WHETTED BITS. Accurately and Uniformly Tempered. Carefully Sharpened and Polished Cutting Edge. Natural Rough Forged Finish, Each Axe is Lacquered, making it Rust proof, KEEN KUTTER Trade Mark Design Stamped in Deep.

All our Hand Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle



No. KDSE.

DAYTON (WIDE HEAD) PATTERN, PLAIN.

No. KDSE—With KEEN KUTTER Octagon Handle No. KX36.
Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$29.50	30.00	30.50	31.00	31.00

No. KDS S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$28.00	26.50	26.00	26.50	26.50

No. KDS Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$26.00	26.50	27.00	27.50	27.50

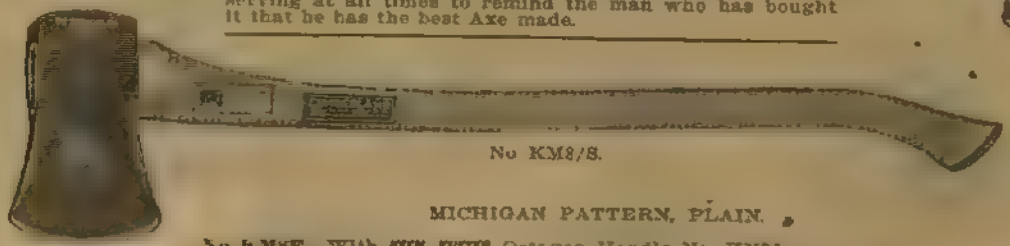
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KDS—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	57	62	69	64	67
Per dozen	$21.00	21.50	22.00	22.50	22.50

One Dozen in a Wood Box.

The Trade Mark is part of the tool—cannot be effaced, serving at all times to remind the man who has bought it that he has the best Axe made.



No KM8/8.

MICHIGAN PATTERN, PLAIN.

No. KMSE—With KEEN KUTTER Octagon Handle No. KX36.
Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4	3¾ to 4½	4 to 5
Weight per dozen about, lbs.	63	65	67	72	75
Per dozen	$29.50	29.50	30.00	30.00	30.50

No. KMS S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4	3¾ to 4½	4 to 5
Weight per dozen about, lbs.	63	65	67	72	75
Per dozen	$28.00	28.00	28.50	28.50	29.00

No. KMS Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4	3¾ to 4½	4 to 5
Weight per dozen about, lbs.	63	65	67	72	75
Per dozen	$26.00	26.00	26.50	26.50	27.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KMS—WITHOUT HANDLE.

Weight each, lbs.	3½ to 3¾	3 to 4	3½ to 4	3¾ to 4½	4 to 5
Weight per dozen about, lbs.	46	49	51	56	59
Per dozen	$21.00	21.00	21.50	21.50	22.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

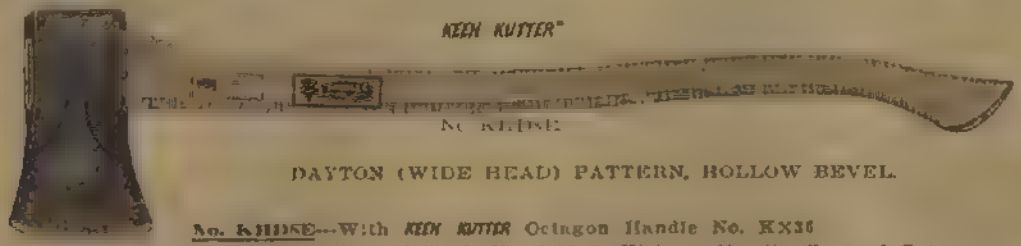
TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REG. U.S. PAT. OFF.

AXES.

***KEEN KUTTER*® SINGLE BIT**

All our Handled Axes have Handles FASTENED WITH OUR **SIMMONS** PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

HAND FORGED FROM ONE SOLID PIECE OF THE HIGHEST GRADE CRUCIBLE STEEL. Specially Hardened Poll, HAND HAMMERED AND WHETSTONE GROUND BITS. Accurately Balanced, Perfectly Ground, Carefully Sharpened and Polished Cutting Edges, Natural Rough Hand Forged Finish. Each Axe is Lacquered, making it Rust-proof. *KEEN KUTTER* Trade Mark Design Stamped in Deep.



No. KHDSE

DAYTON (WIDE HEAD) PATTERN, HOLLOW BEVEL.

No. KHDSE—With *KEEN KUTTER* Octagon Handle No. KX36

Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$30.50	31.00	31.50	32.00

No. KHDS/S—With Cumberland Oval Handle No. CAA

Handled with Cumberland First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$29.00	29.50	30.00	30.50

No. KHDS Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$27.00	27.50	28.00	28.50

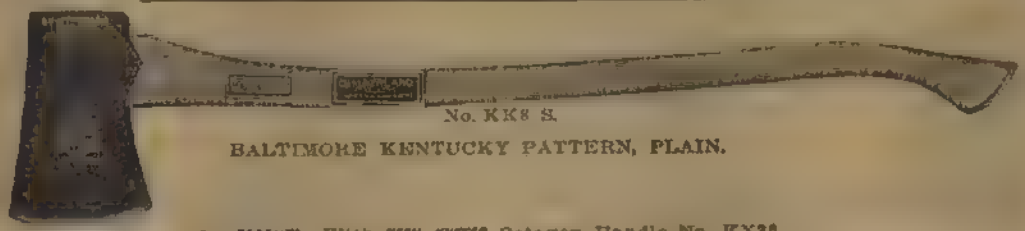
One Dozen in a Crate. Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KHDS—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	54	54	59	64
Per dozen	$22.00	22.50	23.00	23.50

One Dozen in a Wood Box

Perfectly balanced and properly handled by men who know how to handle an Axe—it falls true to the wood chopper's stroke—no unsightly creases in the cut. Unless you appreciate what is good and expect to take just pride in a fine tool, pass it by, for the *KEEN KUTTER* Axe is built for the man who knows what is good and who always wants the best.



No. KK8 S.

BALTIMORE KENTUCKY PATTERN, PLAIN.

No. KK8E—With *KEEN KUTTER* Octagon Handle No. KX36.

Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	29.50	30.00	30.50

No. KK8 S—With Cumberland Oval Handle No. CAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$28.00	28.50	29.00

No. KK8 Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$26.00	26.50	27.00

One Dozen in a Crate. Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KK8—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	49	54	59
Per dozen	$21.00	21.50	22.00

One Dozen in a Wood Box

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

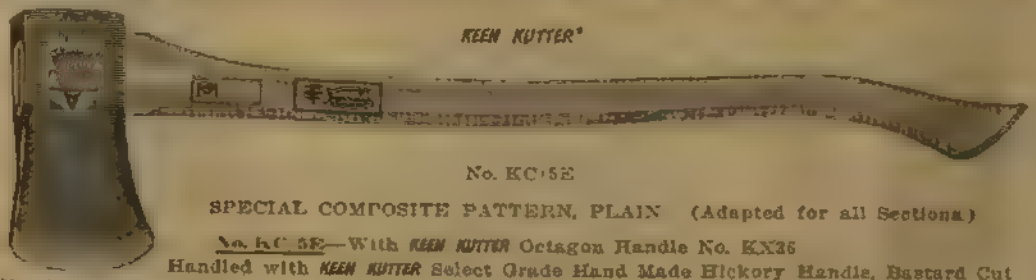
TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED

AXES.

***KEEN KUTTER*° SINGLE BIT.**

Soft Steel Poll, Hardened Poll, Extra Fine Quality Crucible Steel BIT HAND HAMMERED, thin cutting, Model Pattern, HAND TEMPERED, Pat. Nut Whetted Natural Forged Finish Bird Axes Oiled, making it Rust-proof; *KEEN KUTTER* Trade Mark Design Etched in Deep.

All our Hardwood Axes have Handles FASTENED WITH OUR **SIMMONS** PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KC5E

SPECIAL COMPOSITE PATTERN, PLAIN (Adapted for all Sections)

No. KC 5E—With *KEEN KUTTER* Octagon Handle No. KX26
Handled with *KEEN KUTTER* Select Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	65	70	75	80
Per dozen	$28.50	29.00	29.50	30.00

No. KC 5 S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$27.00	27.50	28.00	28.50

No. KC 5 Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs	3 to 4	3 to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	70	75	80	85
Per dozen	$25.00	25.50	26.00	26.50

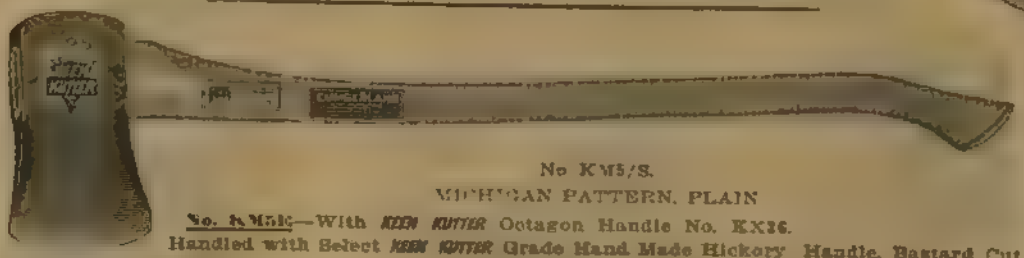
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KC 5—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	49	54	59	64
Per dozen	$20.00	20.50	21.00	21.50

One Dozen in a Wood Box.

Made by high class skilled axe forgers, of selected material, steel tested for cohesive toughness, individual hand tempered, each tested under the most rigid inspection. The *KEEN KUTTER* Axe has about it an individuality not approximated by any other make.



No KM5/S.

MICHIGAN PATTERN, PLAIN

No. KM5E—With *KEEN KUTTER* Octagon Handle No. KX26.
Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	67	67	68	71	76
Per dozen	$28.50	28.50	29.00	29.00	29.00	29.50

No. KM5 S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	66	67	68	67	76
Per dozen	$27.00	27.00	27.50	27.50	27.50	28.00

No. KM5 Q—With Cumberland Octagon Handle No. CXX
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3¼ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	52	65	67	66	67	76
Per dozen	$25.00	25.00	25.50	25.50	25.50	26.00

One Dozen in a Crate Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KM5—WITHOUT HANDLE.

Weight each, lbs	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	46	49	51	50	51	59
Per dozen	$20.00	20.00	20.50	20.50	20.50	21.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE
Weight of Each Axe Stamped on the Poll.

TRADE MARK:
B. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

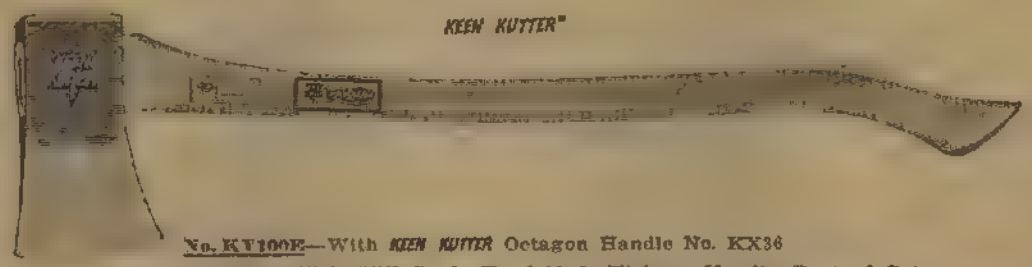
KEEN KUTTER* SINGLE BIT.

YANKEE (NARROW HEAD) PATTERN, PLAIN.

Soft Steel Body, Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED; GOLD BRONZED, WITH POLISHED HEAD AND BIT; KEEN KUTTER Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

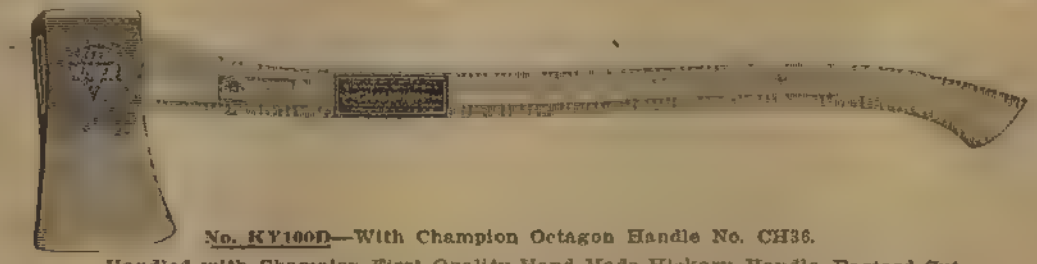
YANKEE



No. KY100E—With KEEN KUTTER Octagon Handle No. KX36

Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

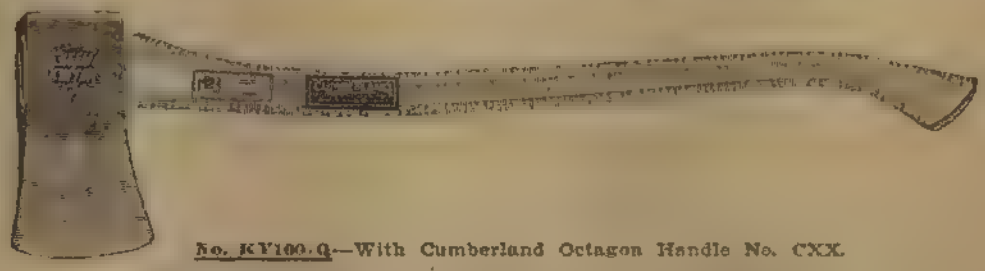
Weight of Head, lbs	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$24.50	25.00	25.50	24.50	25.00	25.00	25.50	26.00	26.00



No. KY100D—With Champion Octagon Handle No. CH36.

Handled with Champion First Quality Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$23.00	23.50	24.00	23.00	23.50	23.50	24.00	24.50	24.50



No. KY100.Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$21.00	21.50	22.00	21.00	21.50	21.50	22.00	23.50	23.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KY100—WITHOUT HANDLE

Weight each, lbs.	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per doz. about, lbs	49	55	60	[illegible]	51	54	[illegible]	[illegible]	[illegible]
Per dozen	$16.00	16.50	17.00	16.00	16.50	16.50	17.00	17.50	17.50

One Dozen in a Wood Box.

Perfectly balanced and properly handled by men who know how to handle an Axe—it falls true to the wood-chopper's stroke—no unsightly creases in the cut. Unless you appreciate what is good and expect to take just pride in a fine tool, pass it by, for the KEEN KUTTER Axe is built for the man who knows what is good and who always wants the best.

EACH AXE PUT UP IN PAPER CARTON AND CARTON LABELED GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED.

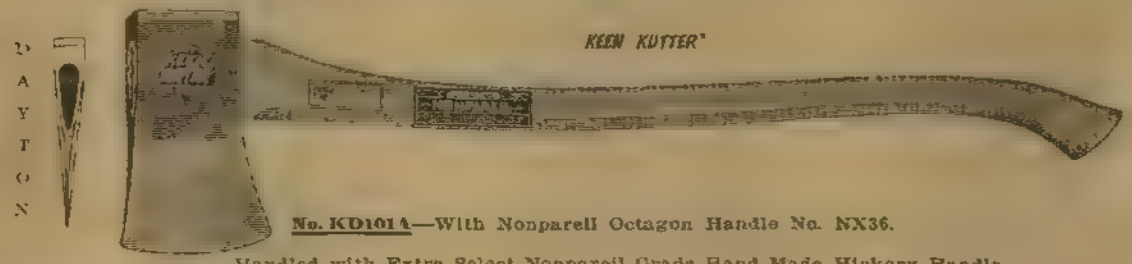
AXES.

KEEN KUTTER SINGLE BIT

DAYTON (WIDE HEAD) PATTERN, PLAIN

Soft Steel Body, Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED, GOLD BRONZED WITH POLISHED HEAD AND BIT; *KEEN KUTTER* Trade Mark Design Etched in Deep.

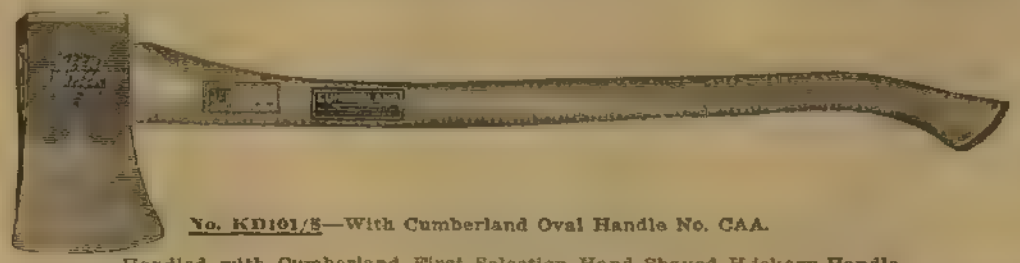
All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KD1014—With Nonpareil Octagon Handle No. NX36.

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle.

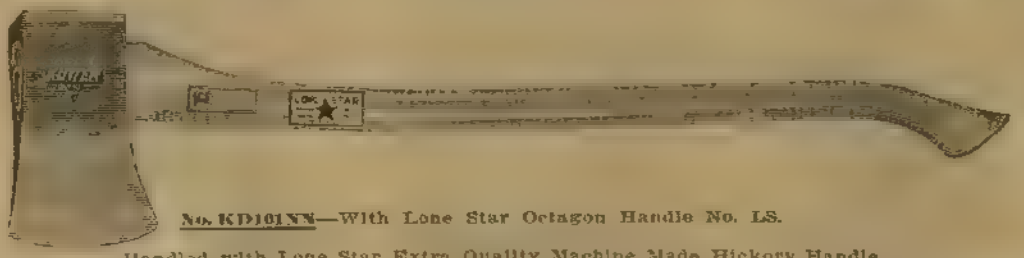
Weight of Head, lbs.	3½	4	4½	5	3 to 4	3½ to 4½	3½ to 4½	4 to 5	4½ to 5½	5 to 6
Weight per doz. about, lbs	65	71	76	84	65	68	70	75	80	84
Per dozen	$24.00	24.50	25.00	26.50	24.00	24.50	24.50	25.00	25.50	26.00



No. KD101/8—With Cumberland Oval Handle No. CAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½	4	4½	5	3 to 4	3½ to 4½	3½ to 4½	4 to 5	4½ to 5½	5 to 6
Weight per dozen about, lbs	65	71	76	84	65	68	70	75	80	84
Per dozen	$23.00	23.50	24.00	25.50	23.00	23.50	23.50	24.00	24.50	25.00



No. KD101NN—With Lone Star Octagon Handle No. LS.

Handled with Lone Star Extra Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3½	4	4½	5	3 to 4	3½ to 4½	3½ to 4½	4 to 5	4½ to 5½	5 to 6
Weight per dozen about, lbs.	65	71	76	84	65	68	70	75	80	84
Per dozen	$23.00	23.50	24.00	25.50	23.00	23.50	23.50	24.00	24.00	25.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KD101—WITHOUT HANDLE.

Weight each, lbs.	3½	4	4½	5	3 to 4	3½ to 4½
Weight per dozen about, lbs.	49	56	60	78	49	52
Per dozen	$16.00	16.50	17.00	18.00	16.00	16.50

Weight each, lbs.	3½ to 4½	4 to 5	4½ to 5½	5 to 6
Weight per dozen about, lbs.	54	59	64	68
Per dozen	$16.50	17.00	17.50	18.00

One Dozen in a Wood Box.

Made by high class skilled axe forgers, of selected material, steel tested for cohesive toughness, individual hand tempered, each tested under the most rigid inspection. The *KEEN KUTTER* Axe has about it an individuality not approximated by any other make.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE
Weight of Each Axe Stamped on the Poll.

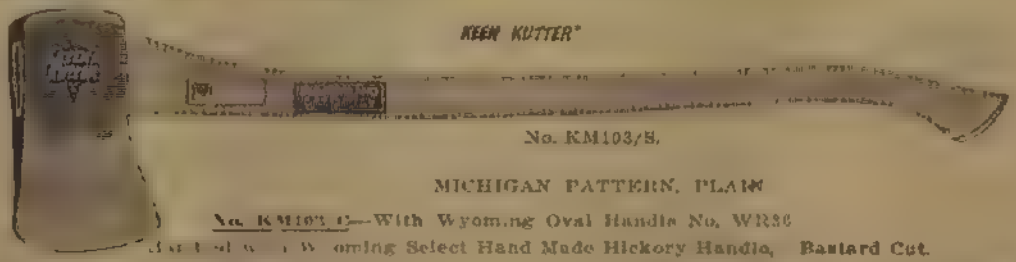
TRADE MARK
E. C. SIMMONS' KEEN KUTTER,

AXES.

KEEN KUTTER* SINGLE BIT

Soft Steel Body; Hardened Poll. Highest Grade Crucible Forged Steel Bit. HAND TEMPERED. GOLD BRONZED WITH POLISHED BEVEL AND BIT. KEEN KUTTER Trade Mark Design Etched on Head.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KM103/8.

MICHIGAN PATTERN, PLAIN

No. KM103/8—With Wyoming Oval Handle No. WR8C

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 3⅝	3 to 4	3⅝ to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	62	65	67	70	75
Per dozen	$23.50	23.50	24.00	24.00	24.50

No. KM103/8—With Cumberland Oval Handle No. CAA

Handled with Cumberland First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3½ to 3⅝	3 to 4	3⅝ to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	62	65	67	70	75
Per dozen	$23.00	23.00	23.50	23.50	24.00

No. KM103V—With Blue Oak Oval Handle No. A1R.

Handled with Blue Oak Extra Select Hand Shaved Oak Handle

Weight of Head, lbs.	3½ to 3⅝	3 to 4	3⅝ to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	62	65	67	70	75
Per dozen	$21.00	21.00	21.50	21.50	22.00

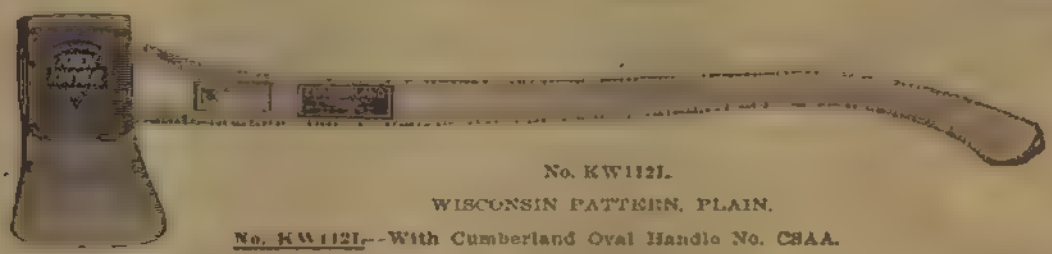
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KM103 WITHOUT HANDLE

Weight each, lbs.	3½ to 3⅝	3 to 4	3⅝ to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	46	49	51	54	59
Per dozen	$16.00	16.00	16.50	16.50	17.00

One Dozen in a Wood Box.

The Trade Mark is part of the tool—cannot be effaced, serving at all times to remind the man who has bought it, that he has the best Axe made.



No. KW112I.

WISCONSIN PATTERN, PLAIN.

No. KW112I—With Cumberland Oval Handle No. C8AA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3¾ to 3⅝	3 to 4	3⅝ to 4½
Weight per dozen about, lbs.	62	65	70
Per dozen	$23.50	23.50	24.00

No. KW112EE—With Wisconsin Oval Handle No. R4X.

Handled with Wisconsin First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3¾ to 3⅝	3 to 4	3⅝ to 4½
Weight per dozen about, lbs.	62	65	70
Per dozen	$22.50	23.50	24.00

No. KW112X—With Blue Oak Oval Handle No. A1N.

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	3¾ to 3⅝	3 to 4	3⅝ to 4½
Weight per dozen about, lbs.	62	65	70
Per dozen	$21.00	21.00	21.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KW112—WITHOUT HANDLE.

Weight each, lbs.	3¾ to 3⅝	3 to 4	3⅝ to 4½
Weight per dozen about, lbs.	46	49	54
Per dozen	$16.00	16.00	16.50

One Dozen in a Wood Box.

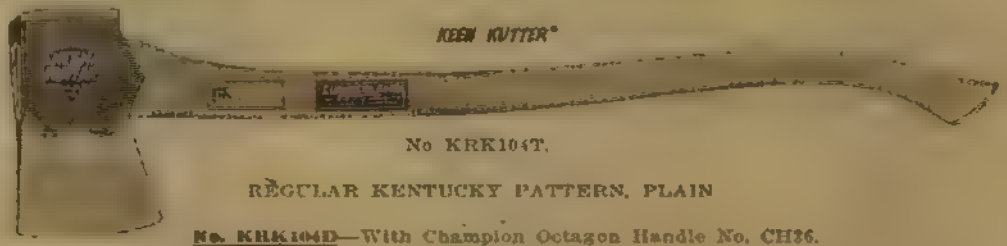
EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

TRADE MARK
E. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

KEEN KUTTER* SINGLE BIT

Soft Steel Body, Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED, GOLD BRONZED, WITH POLISHED HEAD AND BIT; KEEN KUTTER Trade Mark Design Etched in Deep.
All our Hatchet Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KRK104T.

REGULAR KENTUCKY PATTERN, PLAIN

No. KRK104D—With Champion Octagon Handle No. CH36.
Handled with Champion First Quality Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4⅛	4 to 5	4½ to 5⅛	4⅝ to 6
Weight per dozen about, lbs.	70	75	80	85
Per dozen	$23.50	24.00	23.50	24.50

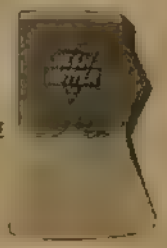
No. KRK104I With Cumberland Oval Handle No. CA.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3½ to 4⅛	4 to 5	4½ to 5⅛	4⅝ to 6
Weight per dozen about, lbs.	64	75	80	85
Per dozen	$21.50	22.00	22.50	22.50

No. KRK104QQ With Standard Octagon Handle No. SXX
Handled with Standard XX Quality Hickory Handle.

Weight of Head, lbs.	3½ to 4⅛	4 to 5	4½ to 5⅛	4⅝ to 6
Weight per dozen about, lbs.	70	75	80	85
Per dozen	$21.50	22.00	22.50	22.50

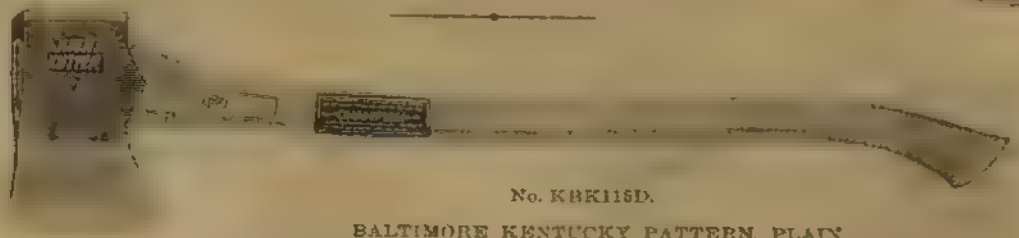
One Dozen in a Crate. Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.



No. KRK104—WITHOUT HANDLE

Weight each, lbs.	3¾ to 4⅛	4 to 5	4½ to 5⅛	4⅝ to 6
Weight per dozen about, lbs.	74	69	64	68
Per dozen	$16.50	17.00	17.50	17.50

One Dozen in a Wood Box



No. KBK115D.

BALTIMORE KENTUCKY PATTERN, PLAIN.

No. KBK115D—With Champion Octagon Handle No. CH36.
Handled with Champion First Quality Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4⅛	4 to 5	4½ to 5⅛
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$22.00	23.50	24.00	24.50

No. KBK115Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4⅛	4 to 5	4½ to 5⅛
Weight per dozen about, lbs.	70	70	75	81
Per dozen	$21.00	21.50	22.00	22.50

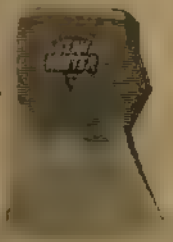
No. KBK115AA—With Delmar Octagon Handle No. D36.
Handled with Delmar Extra Select Second Growth Redwood Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4⅛	4 to 5	4½ to 5⅛
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$19.50	20.00	20.50	21.00

One Dozen in a Crate. Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KBK115—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4⅛	4 to 5	4½ to 5⅛
Weight per dozen about, lbs.	71	71	71	74
Per dozen	$16.00	16.50	17.00	17.50



One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED GIVING WEIGHT OF AXE.

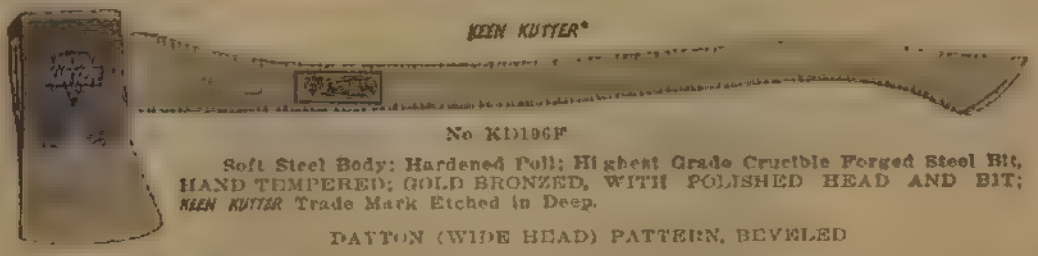
Weight of Each Axe Stamped on the Poll.

TRADE MARK
E. C. SIMMONS' KEEN KUTTER,
REG. U.S. PAT. OFF.

AXES.

KEEN KUTTER* SINGLE BIT

All our Hot Head Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No KD196F

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Bit, HAND TEMPERED; GOLD BRONZED, WITH POLISHED HEAD AND BIT; KEEN KUTTER Trade Mark Etched in Deep.

DAYTON (WIDE HEAD) PATTERN, BEVELED

No. KD106F—With KEEN KUTTER Oval Handle No. KR36.
Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$25.00	25.50	26.00

No. KD106 C—With Minnesota Chief Oval Handle No. MC4X
Handled with Minnesota Chief First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$24.00	24.50	25.00

No. KD106 Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

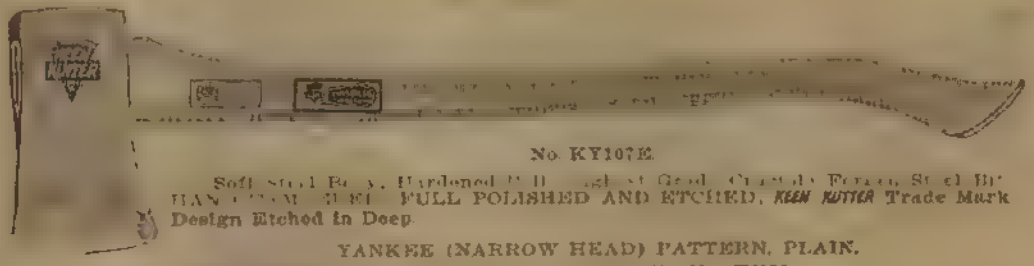
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$21.50	22.00	22.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KD106—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	49	54	59
Per dozen	$16.50	17.00	17.50

One Dozen in a Wood Box.



No. KY107E

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Bit, HAND TEMPERED; FULL POLISHED AND ETCHED, KEEN KUTTER Trade Mark Design Etched in Deep.

YANKEE (NARROW HEAD) PATTERN, PLAIN.

No. KY107E—With KEEN KUTTER Octagon Handle No. KX36.
Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$26.00	26.50

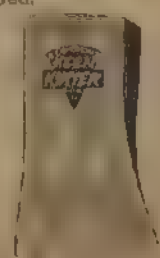
No. KY107 CC—With Minnesota Chief Oval Handle No. MC4X
Handled with Minnesota Chief First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$25.00	25.50

No. KY107T—With Cumberland Oval Handle No. CA
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	71	75
Per dozen	$22.50	23.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.



No. KY107—WITHOUT HANDLE.

Weight each, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	54	59
Per dozen	$17.50	18.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

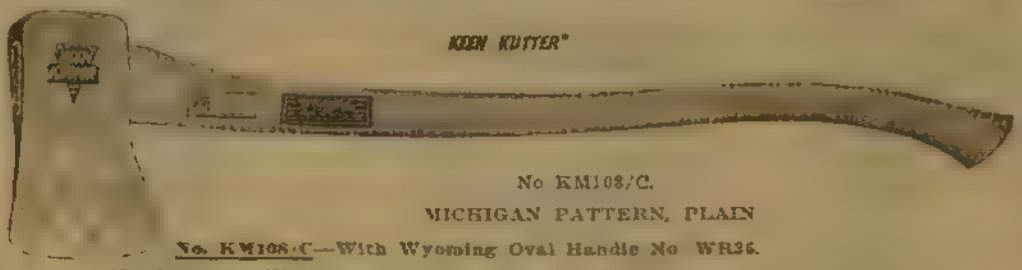
TRADE MARK.
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED.

AXES.

KEEN KUTTER SINGLE BIT

Soft Steel Bod... Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED, FULL POLISHED AND ETCHED; ***KEEN KUTTER*** Trade Mark Design Etched in Deep.

All of Hardware Axes have Handles FASTENED WITH E'R **SIMMONS** PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle.



No KM108/C.

MICHIGAN PATTERN, PLAIN

No. KM108/C—With Wyoming Oval Handle No. WR36.

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs	3¼ to 3¾	3 to 4	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	65	66	70	75
Per dozen	$24.50	$24.50	25.00	25.00	25.50

No. KM108FF—With Wisconsin Oval Handle No. RtX.

Handled with Wisconsin First Selection Hand Shaved Hickory Handle.

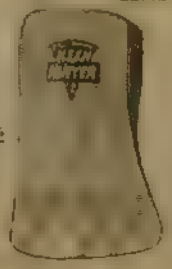
Weight of Head, lbs	3¼ to 3¾	3 to 4	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	65	66	70	75
Per dozen	$24.50	24.50	25.00	25.00	25.50

No. KM108X—With Blue Oak Oval Handle No. A1N

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs	3¼ to 3¾	3 to 4	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	65	66	70	75
Per dozen	$22.00	22.00	22.50	22.50	23.00

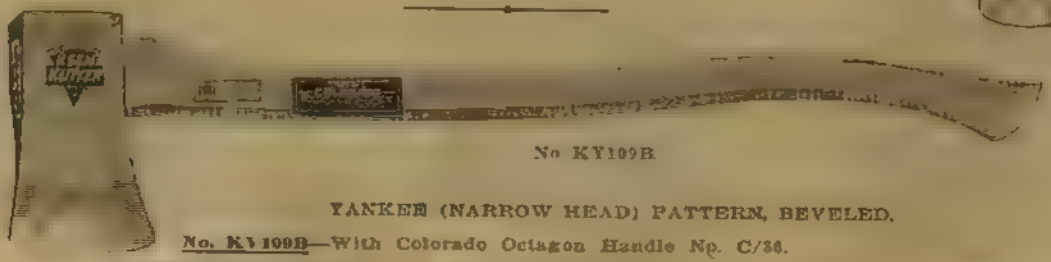
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.



No. KM108—WITHOUT HANDLE

Weight each, lbs	3¼ to 3¾	3 to 4	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	65	70	70	75	75
Per dozen	$17.00	17.00	17.50	17.50	18.00

One Dozen in a Wood Box.



No KY109B.

YANKEE (NARROW HEAD) PATTERN, BEVELED.

No. KY109B—With Colorado Octagon Handle No. C/36.

Handled with Colorado Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs	3½ to 4½	4 to 5
Weight per dozen about, lbs	70	75
Per dozen	$25.50	26.00

No. KY109M—With Cumberland Oval Handle No. CSA36.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs	3½ to 4½	4 to 5
Weight per dozen about, lbs	70	75
Per dozen	$23.50	24.00

No. KY109DD—With Minnesota Chief Oval Handle No. MC/3X

Handled with Minnesota Chief Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs	3½ to 4½	4 to 5
Weight per dozen about, lbs	70	75
Per dozen	$23.50	24.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KY109—WITHOUT HANDLE

Weight each, lbs	3½ to 4½	4 to 5
Weight per dozen about, lbs	71	81
Per dozen	$18.00	18.50

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

TRADE MARK
E. C. SIMMONS' *KEEN KUTTER.*

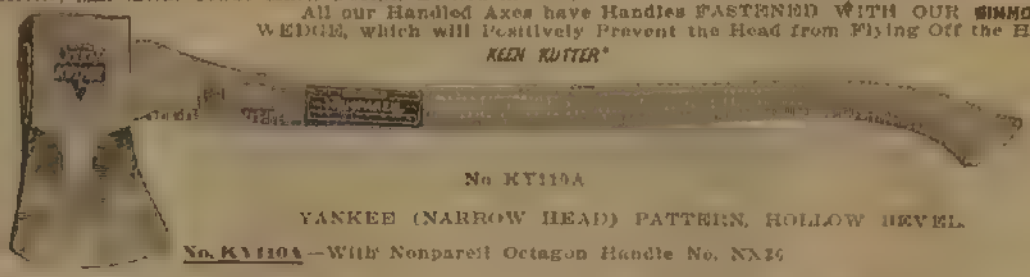
AXES.

***KEEN KUTTER** SINGLE BIT**

Soft Steel Poll, Hardened Full Hammer Ground Cutting Edge, 1 8 Pit HAND TEMPERED FULL POLISHED AND ETCHED; *KEEN KUTTER* Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle

*KEEN KUTTER**



No KY110A

YANKEE (NARROW HEAD) PATTERN, HOLLOW BEVEL.

No. KY110A—With Nonpareil Octagon Handle No. NX36

Handled with Nonpareil Extra Select Grade Hand Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$26.00	26.50	27.00

No. KY110E—With *KEEN KUTTER* Octagon Handle No. KX36

Handled with *KEEN KUTTER* Select Grade Hand Made Hickory Handle Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$26.50	27.00	27.50

No. KY110/8—With Cumberland Oval Handle No. CAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle

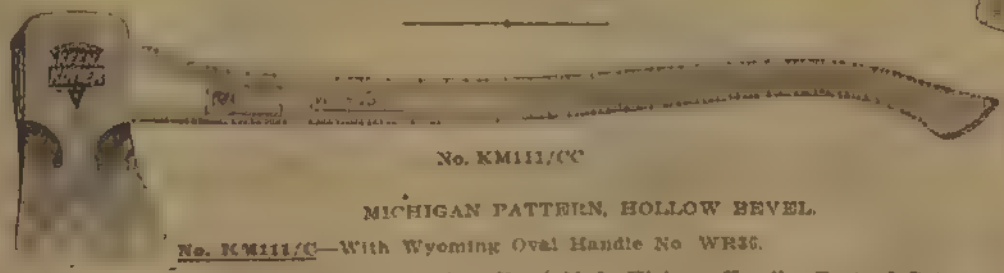
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.			
Per dozen	$25.00	25.50	26.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KY110—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs			
Per dozen	$18.00	18.50	19.00

One Dozen in a Wood Box.



No. KM111/CC

MICHIGAN PATTERN, HOLLOW BEVEL.

No. KM111/C—With Wyoming Oval Handle No. WR36.

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$25.50	26.00	26.50

No. KM111/CC—With Minnesota Chief Oval Handle No. MC/4X

Handled with Minnesota Chief First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	[illegible]	26.00	26.50

No. KM111T—With Cumberland Oval Handle No. CA.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$23.00	23.50	24.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KM111—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	49	54	59
Per dozen	$18.00	18.50	19.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped on the Poll.

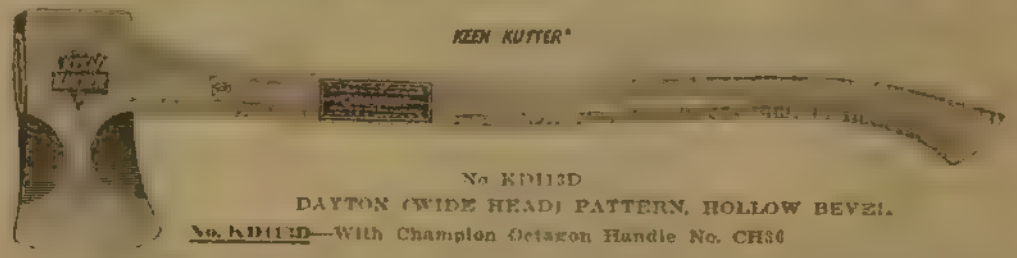
No. KY110 to KM111 *KEEN KUTTER* HOLLOW GROUND AXES are for the Expert Chopper, built for rapid work and ease of cutting. The extra thin blade and [illegible] for the XX and XXX Axes and Light Cut Bastard Cut Handle is extra keen for the Expert Chopper. Our XXX Axes are not recommended for ordinary use or for Axe Throwing, but are Unsurpassed for the Expert Chopper who can appreciate a high class tool.

TRADE MARK
E. C. SIMMONS' KEEN KUTTER,
REGISTERED

AXES.

KEEN KUTTER SINGLE BIT.

Best Steel Poll, Hammered Do... Hollow Ground Cruc[illegible] Forged Steel Bit HAND TEMPERED FULL POLISHED; BEVELS PAINTED RED; KEEN KUTTER Trade Mark Design Etched in Deep. [illegible] EYES FASTENED WITH OUR SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Hand.



No. KD113D

DAYTON (WIDE HEAD) PATTERN, HOLLOW BEVEL.

No. KD113D—With Champion Octagon Handle No. CH36

Handled With Champion First Quality Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	1	1¼	1 to 1	1⅛ to 1½	1 to 5	1¼ to 1½
Weight per dozen about, lbs.	71	76	65	70	"	80
Per dozen	$24.50	25.00	24.00	24.50	25.00	25.50

No. KD113 C—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	1	1¼	1 to 1	1⅛ to 1½	1 to 5	1¼ to 1½
Weight per dozen about, lbs.	71	76	65	70	"	"
Per dozen	$22.50	23.00	22.00	22.50	23.00	23.50

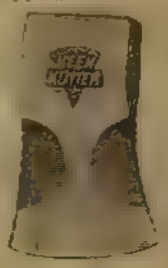
No. KD113½—With Blue Oak Oval Handle No. A1R.

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	1	1¼	1 to 1	1⅛ to 1½	1 to 5	1¼ to 1½
Weight per dozen about, lbs.	71	76	65	70	"	"
Per dozen	$22.50	23.00	22.00	22.50	23.00	23.50

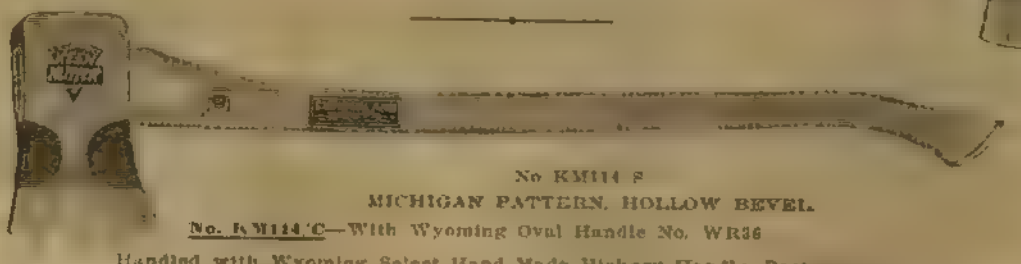
One Dozen in a Crate. Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KD113—WITHOUT HANDLE



Weight each, lbs.	1	1¼	1 to 1	1⅛ to 1½	1 to 5	1¼ to 1½
Weight per dozen about, lbs.	53	"	1	1	54	64
Per dozen	$17.50	18.00	17.00	17.50	18.00	18.50

One Dozen in a Wood Box.



No. KM114 S

MICHIGAN PATTERN, HOLLOW BEVEL.

No. KM114 C—With Wyoming Oval Handle No. WR36

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3⅛ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	"
Per dozen	$24.50	25.00	25.50

No. KM114 S—With Cumberland Oval Handle No. [illegible]

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3⅛ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$26.00	26.50	27.00

No. KM114EE—With Minnesota Chief Oval Handle No. MC32X.

Handled with Minnesota Chief Third Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3⅛ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	"
Per dozen	$22.70	23.20	23.70

One Dozen in a Crate, Heads Enclosed Handles Projecting. Wrapped in Paper and Burlapped

No. KM114—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3⅛ to 4½	4 to 5
Weight per dozen about, lbs.	49	54	"
Per dozen	$17.00	17.50	18.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

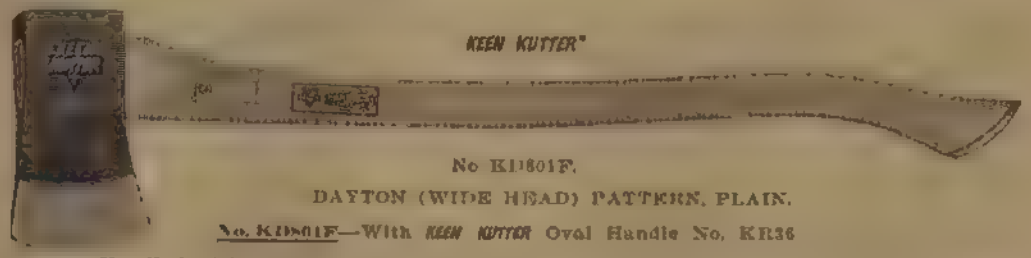
TRADE MARK
E. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

KEEN KUTTER" CON-KAVE SINGLE BIT.

Soft Steel Body, Hardened Poll, Natural Black Finish, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED, KEEN KUTTER Trade Mark Design Etched in Deep.

All our Patented Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No KD801F.

DAYTON (WIDE HEAD) PATTERN, PLAIN.

No. KD801F—With KEEN KUTTER Oval Handle No. KR36

Handled with KEEN KUTTER Select Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	55		70
Per dozen	$28.50		29.00

No. KD801A With Nonpareil Octagon Handle No. NX36

Handled with Nonpareil Extra Select Grade Hand Made Hickory Handle.

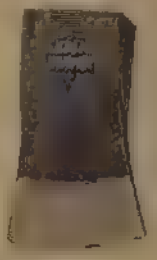
Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	55		70
Per dozen	$28.00		[illegible]

No. KD801NN—With Lone Star Octagon Handle No. LS.

Handled with Lone Star Extra Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	69		[illegible]
Per dozen	[illegible]		27.50

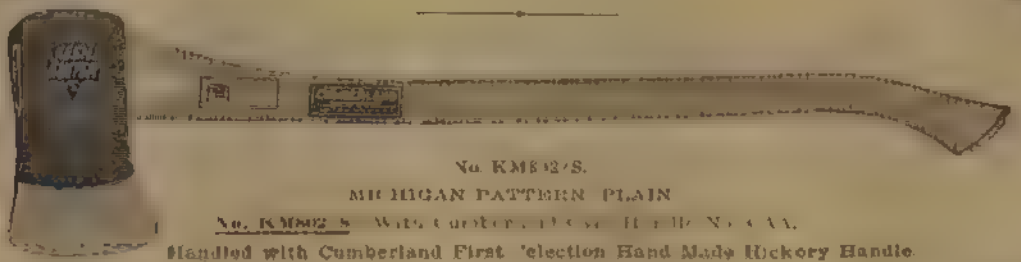
One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped



No. KD801—WITHOUT HANDLE.

Weight each, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	60	70
Per dozen	$20.00	20.50

One Dozen in a Wood Box



No. KM802S.

MICHIGAN PATTERN, PLAIN.

No. KM802S With Cumberland First Selection Handle No. CA.

Handled with Cumberland First Selection Hand Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	63	68	70
Per dozen	$26.50	27.00	27.50

No. KM802B—With Colorado Octagon Handle No. C/36.

Handled with Colorado Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	64	68	[illegible]
Per dozen	$27.00	27.50	28.00

No. KM802V—With Blue Oak Oval Handle No. A1R

Handled with Blue Oak Extra Select Hand Shaved Oak Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	[illegible]	68	[illegible]
Per dozen	$24.50	25.00	25.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KM802—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	47	52	54
Per dozen	$19.50	20.00	20.50

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

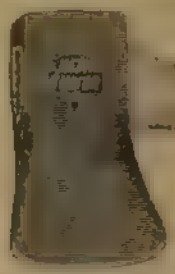
TRADE MARK
E. C. SIMMONS' KEEN KUTTER.
REGISTERED

AXES.

KEEN KUTTER BLACK JACK.

SINGLE BIT.

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Bit, HAND HAMMERED AND HAND WHETTED, EXTRA HARD HAND TEMPERED, NATURAL BLACK FINISH. KEEN KUTTER Trade Mark Design Etched in Deep.



All Double Bitted Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

No. KY300/CC.

NEW YANKEE (NARROW HEAD) PATTERN, PLAIN

No. KY300E—With KEEN KUTTER Octagon Handle No. KX36

Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4¼	3½ to 4½	4 to 5
Weight per dozen about, lbs.				
Per dozen	$26.50	27.00	27.00	27.50

No. KY300/CC—With Minnesota Chief Oval Handle No. MC'45

Handled with Minnesota Chief First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4¼	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	68	70	75
Per dozen	$22.50	24.00	24.00	24.50

No. KY300Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

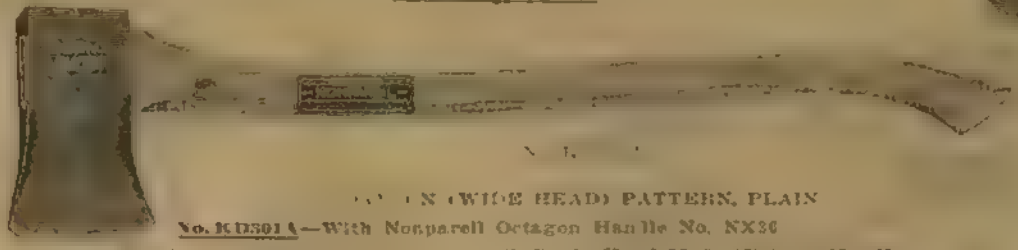
Weight of Head, lbs.	3 to 4	3½ to 4¼	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	68	70	75
Per dozen	$23.00	23.50	23.50	24.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KY300 WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4¼	3½ to 4½	4 to 5
Weight per dozen about, lbs.	49	52	54	57
Per dozen	$18.00	18.50	18.50	19.00

One Dozen in a Wood Box.



NEW YANKEE (WIDE HEAD) PATTERN, PLAIN

No. KD301A—With Nonpareil Octagon Handle No. NX36

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle.

Weight of Head, lbs.	4	4¼	3 to 4	3½ to 4¼	4 to 5	4½ to 5½
Weight per dozen about, lbs.	71	76	65	70	75	80
Per dozen	$26.50	27.00	26.00	26.50	27.00	27.50

No. KD301L—With Cumberland Oval Handle No. CHAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	4	4¼	3 to 4	3½ to 4¼	4 to 5	4½ to 5½
Weight per dozen about, lbs.	71	76	65	70	75	80
Per dozen	$26.00	26.50	25.50	26.00	26.50	27.00

No. KD301XX—With Lone Star Octagon Handle No. LS.

Handled with Lone Star Extra Quality Machine Made Hickory Handle.

Weight of Head, lbs.	4	4¼	3 to 4	3½ to 4¼	4 to 5	4½ to 5½
Weight per dozen about, lbs.	71	76	65	70	75	80
Per dozen	$25.50	26.00	25.00	25.50	26.00	26.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting. Wrapped in Paper and Burlapped.

No. KD301 WITHOUT HANDLE.

Weight each, lbs.	4	4¼	3 to 4	3½ to 4¼	4 to 5	4½ to 5½
Weight per dozen about, lbs.	55	60	49	54	59	64
Per dozen	$18.50	19.00	18.00	18.50	19.00	19.50

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

TRADE MARK
E. C. SIMMONS' KEEN KUTTER.
REGISTERED.

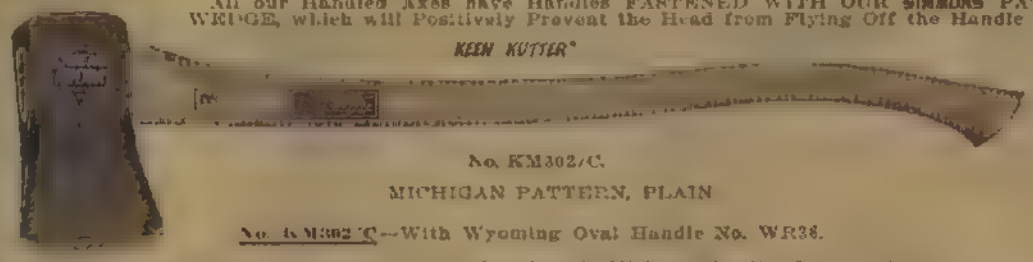
AXES.

KEEN KUTTER BLACK JACK.

SINGLE BIT.

Soft Steel Body, Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND HAMMERED AND HAND WHETTED, EXTRA HARD HAND TEMPER, FINE NATURAL BLACK FINISH. KEEN KUTTER Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle



No. KM302/C.

MICHIGAN PATTERN, PLAIN

No. KM302/C—With Wyoming Oval Handle No. WR36.

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3¼ to 3⅝	3 to 4	3½ to 4	3¾ to 4¼	3⅝ to 4½	4 to 5
Weight per dozen (about) lbs.	62	56	60	64	67	72
Per dozen	$25.50	25.50	26.00	26.00	26.00	26.50

No. KM302FC—With Wisconsin Oval Handle No. R3X

Handled with Wisconsin First Selection Hand Shaved Hickory Handle

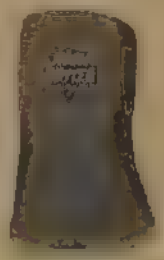
Weight of Head, lbs.	3¼ to 3⅝	3 to 4	3½ to 4	3¾ to 4¼	3⅝ to 4½	4 to 5
Weight per dozen (about) lbs.	62	56	60	64	67	72
Per dozen	$25.50	25.50	26.00	26.00	26.00	26.50

No. KM302T—With Cumberland Oval Handle No. CA

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3¼ to 3⅝	3 to 4	3½ to 4	3¾ to 4¼	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	62	56	60	64	67	72
Per dozen	$21.00	21.00	21.50	21.50	21.50	24.00

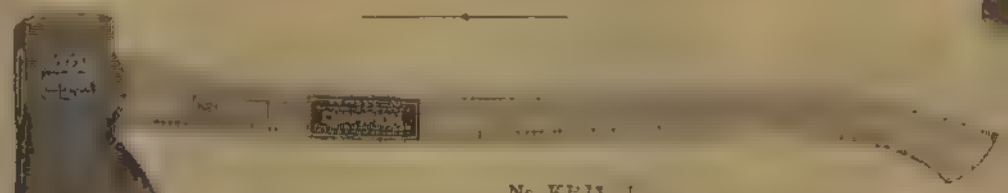
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.



No. KM302—WITHOUT HANDLE.

Weight each lbs.	3¼ to 3⅝	3 to 4	3½ to 4	3¾ to 4¼	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	46	49	50	51	51	
Per dozen	$18.00	18.00	18.50	18.50	18.50	19.00

One Dozen in a Wood Box.



No. KRJ1

ROCKAWAY JERSEY PATTERN, PLAIN.

No. KRJ303D—With Champion Octagon Handle No. CH36

Handled with Champion First Quality Hickory Handle, Bastard Cut

Weight of Head, lbs.	3½ to 4⅛	4 to 5
Weight per dozen (about) lbs.	64	72
Per dozen	$25.50	26.00

No. KRJ303Q—With Cumberland Octagon Handle No. CXX

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4⅛	4 to 5
Weight per dozen about, lbs.	64	72
Per dozen	$21.50	24.00

No. KRJ303SQ—With Standard Octagon Handle No. SXX

Handled with Standard XX Quality Hickory Handle

Weight of Head, lbs.	3½ to 4⅛	4 to 5
Weight per dozen about, lbs.	64	72
Per dozen	$21.00	24.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KRJ303—WITHOUT HANDLE.

Weight each lbs.	3½ to 4⅛	4 to 5
Weight per dozen about, lbs.	50	58
Per dozen	$18.50	19.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE

Weight of Each Axe Stamped on the Poll.

TRADE MARK:
E. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

KEEN KUTTER DOUBLE BIT

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle

KEEN KUTTER

No. KW80DF

HAND FORGED FROM ONE SOLID PIECE OF HIGHEST GRADE CRUCIBLE STEEL HAND HAMMERED HAND WHETTED BITS; Accurately and Uniformly Punched Eyes; Carefully Sharpened and Polished Cutting Edges; Natural Rough Hand Forged Finish. Each Axe is Lacquered, making it Rust-proof.

REGULAR OR WESTERN PATTERN.

No. KW80DF—With KEEN KUTTER Oval Handle No. KDR36.

Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$32.50	34.00	34.50	35.00

No. KW80DF With Cumberland Octagon Handle No. CDXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$30.50	31.00	31.50	32.00

No. KW80DG—With Cumberland Oval Handle No. CDAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle

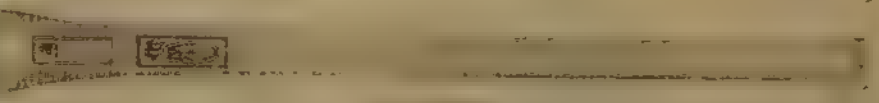
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$32.00	32.50	33.00	33.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KW80—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	49	54	59	64
Per dozen	$25.00	25.50	26.00	26.50

One Dozen in a Wood Box



No. KC 50DF

Soft Steel Body; Extra Fine Quality Crucible Steel Bit, HAND HAMMERED, thus Condensing the Molecules and making it very Tough, HAND TEMPERED, Bit Hand Whetted and Razor Edged. Natural Rough Hand Forged Finish. Each Axe is Oiled, making it Rust-proof; KEEN KUTTER Trade Mark Stamped and Etched in Deep.

SPECIAL COMPOSITE PATTERN (Adapted for All Sections).

No. KC 50DF—With KEEN KUTTER Oval Handle No. KDR36

Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$33.50	33.00	33.50	34.00	34.00

No. KC 50DF -With Cumberland Octagon Handle No. CDXX

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$30.50	30.00	30.50	31.00	31.00

No. KC 50DG—With Cumberland Oval Handle No. CDAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	70	75	80	85
Per dozen	$31.00	31.50	32.00	32.50	32.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KC 50 -WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	49	54	59	64	67
Per dozen	$24.00	24.50	25.00	25.50	25.50

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped Near the Eye

TRADE MARK
E C SIMMONS' *KEEN KUTTER*.
REG. U.S. PAT. OFF.

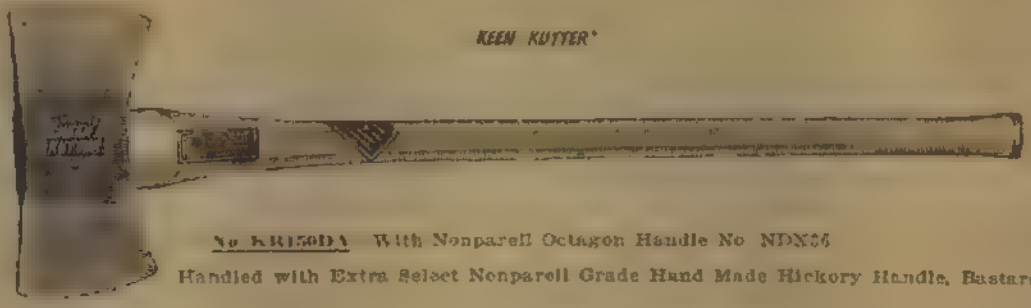
AXES.

KEEN KUTTER DOUBLE BIT.

REGULAR OR WESTERN PATTERN

Solid Cast Steel, Highest Grade Temper, Forged Steel Bits, HAND TEMPERED AND BRONZED WITH HIGH POLISHED BITS. ***KEEN KUTTER*** Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR **SIMMONS** PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

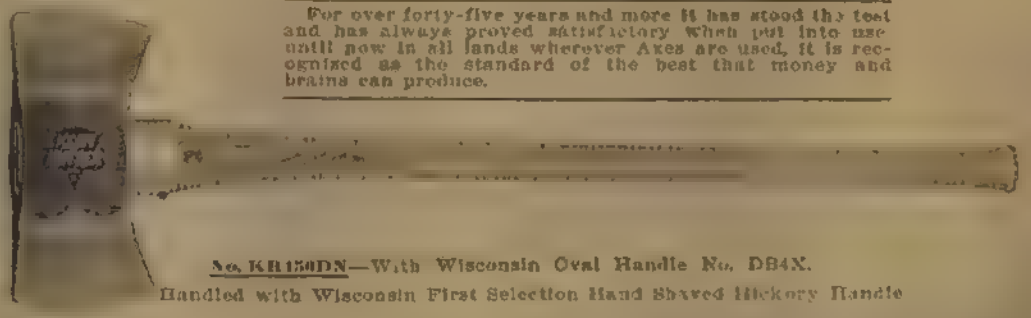


No. KR150DA With Nonpareil Octagon Handle No. NDX36

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	66	67	70	75	80	85
Per dozen	$28.00	28.50	28.50	29.00	29.50	29.50

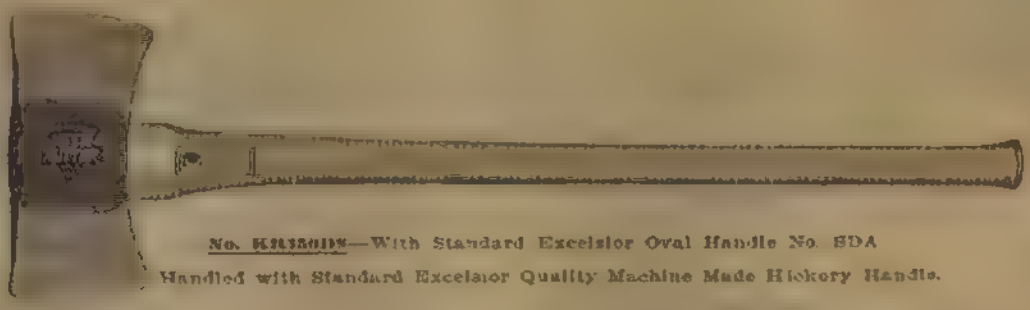
For over forty-five years and more it has stood the test and has always proved satisfactory when put into use until now in all lands wherever Axes are used, it is recognized as the standard of the best that money and brains can produce.



No. KR150DN—With Wisconsin Oval Handle No. DB4X.

Handled with Wisconsin First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	66	67	70	75	80	85
Per dozen	$27.50	28.00	28.00	28.50	29.00	29.00



No. KR150DS—With Standard Excelsior Oval Handle No. SDA

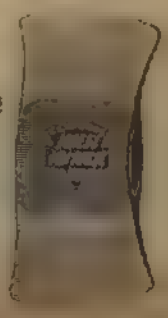
Handled with Standard Excelsior Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	66	67	70	75	80	85
Per dozen	$25.00	25.50	25.50	26.00	26.50	26.50

One Dozen in a Crate, Heads Eye Hard, Handles Projecting, Wrapped in Paper and Packapped

No. KR150—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	57	59	58	64	64	65
Per dozen	$20.00	20.50	20.50	21.00	21.50	21.50



One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE

Weight of Each Axe Stamped Near the Eye.

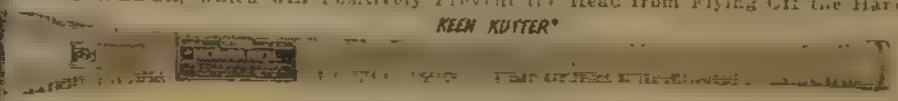
TRADE MARK.
E. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

KEEN KUTTER* DOUBLE BIT

Soft Steel Body, Highest Grade Crucible Forged Steel Bits, HAND TEMPERED, GOLD BRONZED, WITH POLISHED BITS, KEEN KUTTER Trade Mark Design Etched in Bee.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No KW151DA.

WISCONSIN PATTERN

No. KW151DA—With Nonpareil Octagon Handle No. NDX36.
Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	77
Per dozen	$26.00	26.50	26.00

No. KW151DK—With Blue Oak Oval Handle No. 31RDB
Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	61	71	77
Per dozen	$25.00	25.50	26.00

No. KW151DS—With Standard Excelsior Oval Handle No. 8DA
Handled with Standard Excelsior Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	61	71	77
Per dozen	$25.00	25.50	26.00

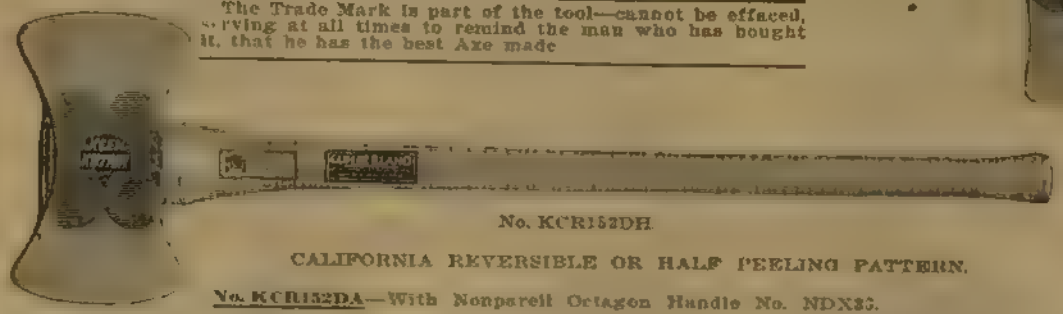
One Dozen in a Crate. Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KW151—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	44	54	59
Per dozen	$20.00	20.50	21.00

One Dozen in a Wood Box

The Trade Mark is part of the tool—cannot be effaced, serving at all times to remind the man who has bought it, that he has the best Axe made



No. KCR152DH

CALIFORNIA REVERSIBLE OR HALF PEELING PATTERN.

No. KCR152DA—With Nonpareil Octagon Handle No. NDX36.
Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	77
Per dozen	$28.50	28.50	29.00

No. KCR152DH—With Cumberland Oval Handle No. CDA
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	77
Per dozen	$26.00	26.00	26.50

No. KCR152DL—With Blue Oak Oval Handle No. 32RDB
Handled with Blue Oak Select Hand Shaved Oak Handle

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	77
Per dozen	$23.50	23.50	24.00

One Dozen in a Crate, Heads Enclosed Handles Projecting, Wrapped in Paper and Burlapped

No. KCR152—WITHOUT HANDLE.

Weight each, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	61	64	69
Per dozen	$20.50	20.50	21.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped Near the Eye.

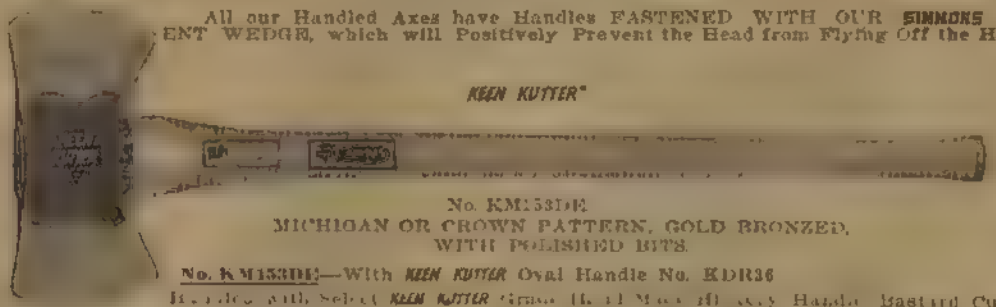
TRADE MARK:
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED.

AXES.

KEEN KUTTER DOUBLE BIT.

Soft Steel Body, Highest Grade Crucible Forged Steel Bits HAND TEMPERED, *KEEN KUTTER* Trade Mark Design Etched on Head.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KM153DE

MICHIGAN OR CROWN PATTERN, GOLD BRONZED, WITH POLISHED BITS.

No. KM153DE—With *KEEN KUTTER* Oval Handle No. KDR36

Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	75
Per dozen	$29.00	29.00	29.50

No. KM153DG—With Cumberland Oval Handle No. CDAA.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

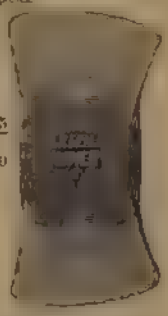
Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	75
Per dozen	$26.50	27.50	28.00

No. KM153DK—With Blue Oak Oval Handle No. A1RDB

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	75
Per dozen	$25.50	25.50	26.00

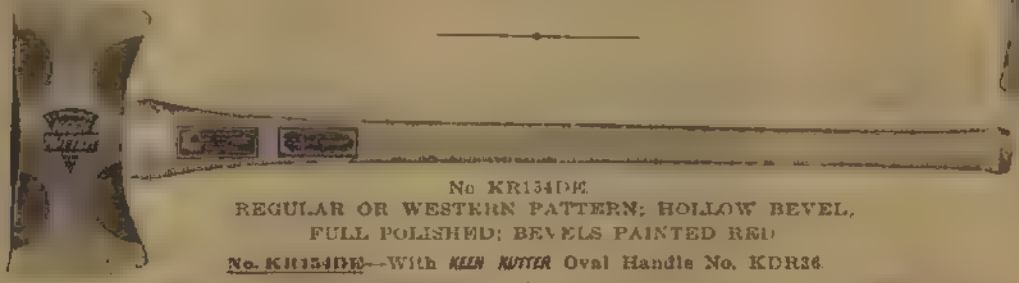
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.



No. KM153—WITHOUT HANDLE

Weight each, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	70	75
Per dozen	$20.50	20.50	21.00

One Dozen in a Wood Box.



No. KR134DE

REGULAR OR WESTERN PATTERN; HOLLOW BEVEL, FULL POLISHED; BEVELS PAINTED RED

No. KR134DE—With *KEEN KUTTER* Oval Handle No. KDR36

Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$31.50	31.50	32.00	32.50

No. KR134DH—With Cumberland Oval Handle No. CDA

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

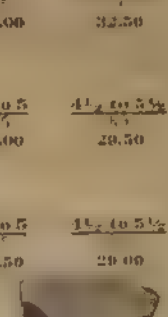
Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$28.50	28.50	29.00	29.50

No. KR134DS—With Standard Excelsior Oval Handle No. [illegible]A

Handled with Standard Excelsior Quality Machine Made Hickory Handle

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$28.00	28.00	28.50	29.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.



No. KR134—WITHOUT HANDLE

Weight each, lbs.	3½ to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$23.00	23.00	23.50	24.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped Near the Eye

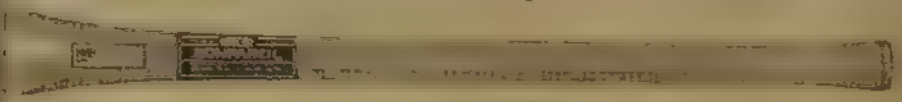
TRADE MARK:
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED

AXES.

*KEEN KUTTER** DOUBLE BIT

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle

*KEEN KUTTER**
Soft Steel Body; Highest Grade Crucible Forged Steel Bits; HAND TEMPERED; *KEEN KUTTER* Trade Mark Design Etched in Deep.



No KR136DA
REGULAR OR WESTERN PATTERN; FULL POLISHED AND ETCHED

No. KR136DA—With Nonpareil Octagon Handle No. NDX36.
Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	71		77
Per dozen	$30.50		31.00

No. KR136DK—With Blue Oak Oval Handle No. A1RDB.
Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	71		77
Per dozen	$27.50		28.50

No. KR136DS—With Standard Excelsior Oval Handle No. SDA.
Handled with Standard Excelsior Quality Machine Made Hickory Handle.

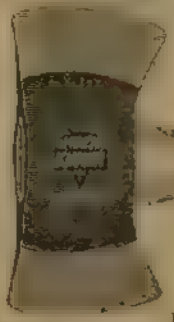
Weight of Head, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	71		77
Per dozen	$27.50		28.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KR136—WITHOUT HANDLE.

Weight each, lbs.	3½ to 4½		4 to 5
Weight per dozen about, lbs.	59		64
Per dozen	$22.50		23.00

One Dozen in a Wood Box



*KEEN KUTTER** KON-KAVE.

Soft Steel Body, Natural Black Finish; Highest Grade Crucible Forged Steel Bits, HAND TEMPERED. *KEEN KUTTER* Trade Mark Design Etched in Deep

No. KR850DC.
REGULAR OR WESTERN PATTERN

No. KR850DC—With *KEEN KUTTER* Octagon Handle No. KDX36.
Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	72	77
Per dozen	$32.50	32.50	33.00

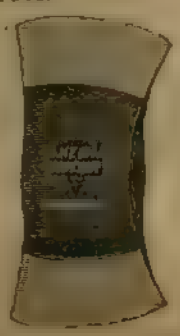
No. KR850DH—With Cumberland Oval Handle No. CDA.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	72	77
Per dozen	$29.50	29.50	30.00

No. KR850DS—With Standard Excelsior Oval Handle No. SDA.
Handled with Standard Excelsior Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	67	72	77
Per dozen	$29.00	29.00	29.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting Wrapped in Paper and Burlapped.



No. KR850—WITHOUT HANDLE.

Weight each, lbs.	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	56	72	73
Per dozen	$24.00	[illegible]	24.50

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped Near the Eye.

TRADE MARK
E. C. SIMMONS' KEEN KUTTER.
REGISTERED

AXES.

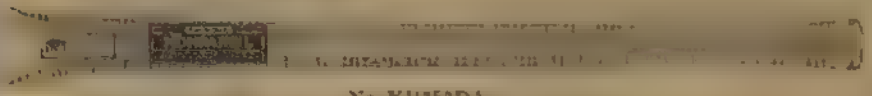
KEEN KUTTER BLACK JACK®.

DOUBLE BIT

Soft Steel Body, Highest Grade Crucible Forged Cast Steel Bits, HAND HAMMERED AND HAND WHETTED, EXTRA HARD HAND TEMPERED; NATURAL BLACK FINISH; KEEN KUTTER Trade Mark Design Etched in Deep

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

KEEN KUTTER®



No. KB350DA

REGULAR OR WESTERN PATTERN

No. KB350DA—With Nonpareil Octagon Handle No. NDX36

Handled with Nonpareil Extra Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4	3⅝ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	77	84
Per dozen	$30.50	30.50	31.00	31.50

No. KB350DK—With Blue Oak Oval Handle No. AIRDB

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

Weight of Head, lbs.	3½ to 4	3⅝ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$27.50	27.50	28.00	28.50

No. KB350DO—With Wisconsin Oval Handle No. DBTX

Handled with Wisconsin Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4	3⅝ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	67	70	75	80
Per dozen	$28.00	28.00	28.50	29.00

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KB350—WITHOUT HANDLE

Weight each, lbs.	3½ to 4	3⅝ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	61	64	64	64
Per dozen	$22.50	22.50	23.00	23.50

One Dozen in a Wood Box.

No. KW351DH

WISCONSIN PATTERN

No. KW351DA—With Nonpareil Octagon Handle No. NDX36.

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	63	70	77
Per dozen	$30.00	30.50	31.00

No. KW351DH—With Cumberland Oval Handle No. CDA.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	63	70	77
Per dozen	$27.50	28.00	28.50

No. KW351DS—With Standard Excelsior Oval Handle No. SDA

Handled with Standard Excelsior Quality Machine Made Hickory Handle

Weight of Head, lbs.	3 to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	63	70	77
Per dozen	$27.00	27.50	28.00

One Dozen in a Crate, Heads Enclosed Handles Projecting, Wrapped in Paper and Burlapped

No. KW351—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3⅝ to 4½	4 to 5
Weight per dozen about, lbs.	61	64	64
Per dozen	$22.00	22.50	23.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped Near the Eye.

TRADE MARK:
E. C. SIMMONS' KLEEN KUTTER,
REGISTERED.

AXES.

KLEEN KUTTER BLACK JACK.

DOUBLE BIT

Soft Steel Body; Highest Grade Crucible Forged Steel Bits, HAND HAMMERED AND HAND WHETTED, EXTRA HARD HAND TEMPERED, NATURAL BLACK FINISH, KLEEN KUTTER Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

No. KM352DF.

MICHIGAN OR CROWN PATTERN.

No. KM352DF—With Cumberland Octagon Handle No. CDXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

	3 to 4	3½ to 4½	4 to 5
Weight of Head, lbs.			
Weight per dozen about, lbs.			
Per dozen	$27.50	28.00	28.50

No. KM352DO—With Wisconsin Oval Handle No. DB3X

Handled with Wisconsin Medium Selection Hand Shaved Hickory Handle.

	3 to 4	3½ to 4½	4 to 5
Weight of Head, lbs.			
Weight per dozen about, lbs.			
Per dozen	$27.50	28.00	28.50

No. KM352DS—With Standard Excelsior Oval Handle No. SDA.

Handled with Standard Excelsior Quality Machine Made Hickory Handle

	3 to 4	3½ to 4½	4 to 5
Weight of Head, lbs.			
Weight per dozen about, lbs.	65		
Per dozen	$27.00	27.50	28.00

One Dozen in a Crate, Heads Enclosed Handles Projecting Wrapped in Paper and Burlapped

No. KM352—WITHOUT HANDLE.

	3 to 4	3½ to 4½	4 to 5
Weight each, lbs.	49	54	59
Weight per dozen about, lbs.			
Per dozen	$22.00	22.50	23.00

One Dozen in a Wood Box.

No. KCR353DH

CALIFORNIA REVERSIBLE OR HALF PEELING PATTERN

No. KCR353DH—With KLEEN KUTTER Oval Handle No. KDR3d.

Handled with Select KLEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

	3 to 4	3½ to 4½	4 to 5
Weight of Head, lbs.			
Weight per dozen about, lbs.	65		
Per dozen	$30.50	31.00	31.50

No. KCR353DH—With Cumberland Oval Handle No. CDA.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

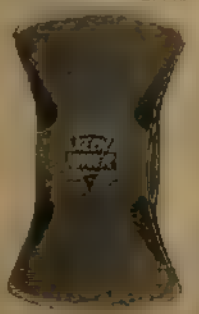
	3 to 4	3½ to 4½	4 to 5
Weight of Head, lbs.			
Weight per dozen about, lbs.	65		
Per dozen	$27.50	28.00	28.50

No. KCR353DK—With Blue Oak Oval Handle No. A1RDB

Handled with Blue Oak Extra Select Hand Shaved Oak Handle.

	3 to 4	3½ to 4½	4 to 5
Weight of Head lbs.			
Weight per dozen about lbs.			
Per dozen	$27.00	27.50	28.00

One Dozen in a Crate Heads Enclosed, Handles Projecting Wrapped in Paper and Burlapped.



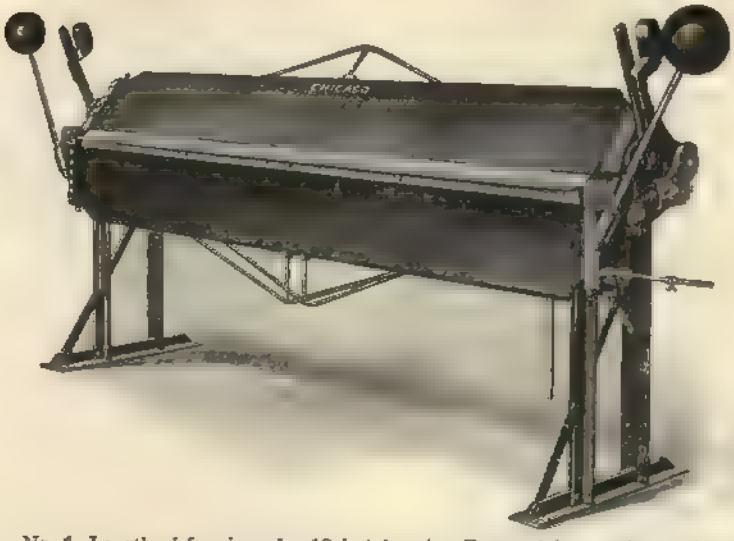
No. KCR353 WITHOUT HANDLE

	3 to 4	3½ to 4½	4 to 5
Weight each, lbs.	49	54	59
Weight per dozen about, lbs.			
Per dozen	$22.00	22.50	

One Dozen in a Wood Box

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped Near the Eye.

THE CHICAGO STEEL BRAKES



STEEL SUPERIOR TO CAST IRON

CHICAGO STEEL BRAKES have advantage over cast iron brakes because:

(1) STEEL has three times the strength of cast iron

(2) STEEL BRAKES stay perfectly straight and true under all conditions.

(3) Cast iron is frequently spongy and therefore of uncertain quality, while STEEL is uniform and always reliable.

Cast Iron Brakes, when subjected to strain, become "spring" because the coarse grain of iron prevents cohesion of its particles.

Wooden Brakes warp, but CHICAGO STEEL BRAKES can't possibly warp and never get sprung.

PERFECT BALANCE

Balance weights on apron offer easy operation. The weights on lever handles permit the jaw being opened to any point, thereby leaving the workman free to handle material and also doing away with the necessity of foot treadles. One man can operate these brakes with ease

No. 1. Length of forming edge 12 feet 1 inch. Designed for cornice and other light work. Will bend No. 18 gauge with edge of 1 inch or more. Weight, 4,000 pounds. Complete with angle steel extension and five formers. This machine is the same proportionately as the No. 2

Each List... $1,188 00

Each...

No. 2. Length of forming edge 10 feet 1 inch. This machine is adapted for various work up to 1 inch flange or more on No. 16 gauge, full length as well as light work. Weight, 2,500 pounds. Angle and five formers furnished.

Each List..... $693 00

Each.....

No. 2B. To bend material for cornices and other light work. Will form as narrow as ¾-inch edge and more, on No. 18 gauge. Weight, 1,900 pounds. Somewhat lighter than No. 2. Length, 10 feet 1 inch. Formers and angle steel furnished

Each List..... $594.00

Each.....

No. 2C. Length of forming edge 8 feet 1 inch. The construction of this brake is the same as that of steel range maker's brake, without slots. Intended for both heavy and light work to 1 inch and wider, turn on No. 14 gauge. Furnished with angle bar reinforcement for heavy material. Weight, 2 000 pounds.

Each List..... $594 00

Each.....

No. 3. Length of forming edge 8 feet 1 inch. Adapted for moderately heavy and also light bending and cornice work. As small as 1 inch and larger edge can be bent on No. 16 gauge. Weight, 1,500 pounds. Angle extension and formers included.

Each List..... $445 00

Each...

No. 3B. Length of forming edge 6 feet 1 inch. Proportionally the same as No. 3, and will form a variety of light work up to No. 16 gauge ¾ inch and wider flange. Weight, 1,100 pounds. Angle bar and formers furnished. Same as No. 3, except the length.

Each List $366 30

Each

No. 4. Length of forming edge 8 feet 1 inch. Suitable for cornice and other light work, as well as ¾ inch and more, bends on No. 18 gauge. Steel angle bar is supplied together with set of formers. Weight, 1,000 pounds.

Each List $326 70

Each

No. 4B. Length of forming edge 6 feet 1 inch. This machine is of a similar construction to the No. 4. It is intended for working No. 18 gauge with ¾ inch edge and wider. Formers and angle extension to apron furnished. Weight, 800 pounds.

Each List $287 10

Each

No. 4C. Length of forming edge 5 feet 1 inch. Aside from length the same as No. 4. To bend ¾ inch and wider on No. 18 gauge. Angle and formers furnished. Weight, 700 pounds.

Each List..... $257 40

Each.

No. 5. Length of forming edge 4 feet 1 inch. To bend 1 inch and wider edge on No. 14 gauge and lighter. Well adapted for automobile and manufacturing work. Complete with angle reinforcement for apron. Weight, 800 pounds.

Each List $297 00

Each

No. 5B. Length of forming edge 3 feet ¼ inch. Otherwise similar to the No. 5. Will form 1 inch and wider bend on No. 14 gauge. Angle bar for apron furnished. Weight, 550 pounds.

Each List..... $247.50

Each

No. 6. Length of forming edge 4 feet ½ inch. Suitable for medium and also light bending. Will form No. 16 gauge with 1 inch edge and wider. Formers and steel angle furnished. Weight, 500 pounds. Treadle not included.

Each List..... $227 70

Each

No. 6B. Length of forming edge 3 feet ½ inch. Practically the same design as the No. 6, except length. To bend 1 inch and larger edge on No. 16 gauge. Angle extension and formers furnished. Weight, 400 pounds

Each List..... $198 00

Each

WIRE CHISEL

Size, Inches	⅛	⅛	¾	⅞	1	1⅛	1¼	1⅜	1½	1¾	2
Each List	$0 48	$0 57	$0 66	$0.73	$0 70	$0 88	$0 97	$1 10	$1 28	$1.63	$1.94
Each											

⅛ to ¾ Inch, One Dozen in a Box. ⅞ to 2 Inch, One-half Dozen in a Box.

See Pages 123 and 124 for Cold and Wood Chisels

LANTERN CHISELS

Inches	½x5½	1x5¾
Each List	$0 53	$0 53
Each		

Half Dozen in a Box

See Pages 123 and 124 For Cold and Wood Chisels

SOLDERING COPPERS

Hand forged, square pointed, clinched handles. Sizes given is the weight per pair.

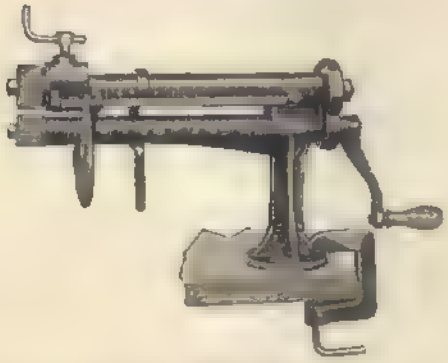
Size, Pounds	1	1½	2	2½	3
Per Pound					

Size, Pounds	4	5	6	7	8	10	12
Per Pound							

Prices Quoted Upon Application

Also See Household Soldering Sets

PIPE CUTTER AND CRIMPER



KOHLER

A Necessary Tool for All Hardware Stores and Tin Shops

Cuts all sizes of Stovepipe from 6 inches to 12 inches. Makes a clean and uniform cut without waste, in any pipe, and does it in many times quicker and better than the old way of cutting with a pair of snips. Besides, any one can use it.

The Crimping and Cutting operations of this machine are independent of each other. After pipe is cut, the end that is left can be crimped the same as a new joint of pipe.

The cutters in this machine are made of Special Hardened Tool Steel, and will last for years without resharpening. The rest of the machine will last a lifetime.

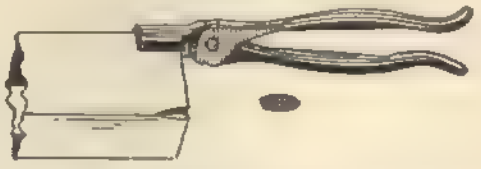
	With Crimper	Without Crimper
Each List	$77.00	$66 00
Each		

STEEL STRAIGHT EDGE

These Straight Edges are made of steel and have beveled edges. They are invaluable around the shop for laying out work in general.

No	994	995
Shipping Weight, Pounds	7½	15
Length, Inches	48	96
Width, Inches	2¾x¼	2¾x¼
Each List	$9.90	$15 40
Each		

CRIMPERS



For Square Heater Pipe

A very efficient tool for crimping the corners in square pipe, thereby making the assembling of square pipe joints a quick and easy operation, producing tight fitting joints and improving the quality and appearance of the work.

No	787
Length, Inches	11
Weight, Pounds	2
Each List	$2 75
Each	

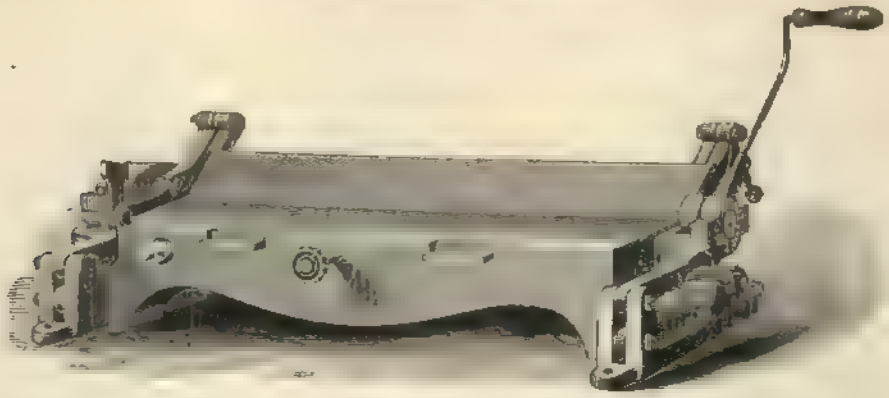
BISHOP'S QUICK WORKING GUTTER END FORMERS

Patented Jan. 25, 1898
THE TOOL

THE WORK

Size, 3½ inch	Each List	Each
" 4 "	$1 21	
" 4½ "	1 45	
" 5 "	1 83	
" 6 "	1 94	
	2 53	

BAR FOLDING MACHINES



Capacity—⅜-inch Locks and wider No. 22 Gauge Iron and Lighter.
Capacity—½-inch Locks and wider No. 24 Gauge Iron and Lighter.
Capacity—¾-inch Locks and wider No. XX Tin.

These Folders, recently improved, have been giving universal satisfaction for a great many years. They are intended for forming the edges of sheet metal at various angles. They will produce closed locks as well as open or round locks for inserting a wire in the flat sheet.

The tough mixture of good iron and accurate designing evidenced only in the Pexto Line of Folding Machines makes up for proper proportionment of the Folding Bar, eliminating cumbersome weight, and where speed and great durability are essential, especially in tinware and other light manufacturing, these patterns will prove superior over any other makes.

A Gripping Jaw clamps the material securely while the bending takes place, guaranteeing the forming of square joints or angles, narrow or wide locks of uniform width the entire length.

No.	62	63
Shipping Weight, Approximately Pounds	102	185
Length, Inches	20¾	30
Will Form Closed and Open Locks, Inches	⅛ to 1	⅛ to 1
Will Form Open Locks to Receive a Wire up to	¼	¼
Each List	$121 00	$143.00
Each		

FOLDERS

Capacity—No. 24 Gauge Iron and Lighter

These Folders will fold the edges of sheets formed in cylindrical shape. They will prove desirable machines for edging sheets while in the flat as well.

A practical feature, consisting of a Round Steel Rod Attachment, which permits for the turning of edges on sheets of any length, is fitted to Nos. 12A and 14. To turn an edge longer than the length of the machine, the round rod is placed in the machine so that the sheet will pass over, it allowing the Folding Bar to turn against its round surface. After it bend is first made the entire length of the sheet, repeating this operation of bending until the lock is finished or far enough to close it down in the ordinary way. With machines made for turning locks wider than ¾ inch, Steel Strips are furnished and are used under the clamping or folding plate or between sheet and clamping plate to increase the width of lock of a size in keeping with the capacity of the machine. For folding the edges of Pipe of light material for Stove Pipe, etc., these patterns are preferable over the Champion Pattern Pipe Former, as they will close down the lock ready for grooving with little or no malleting.

No.	12
Shipping Weight Approximately, Pounds	90
Length, Inches	30½
Will Form Locks, Inches	¼, ⅜, ½, ⅝
Each List	$85 00
Each	

Packed One in a Box

PIPE FOLDING MACHINES

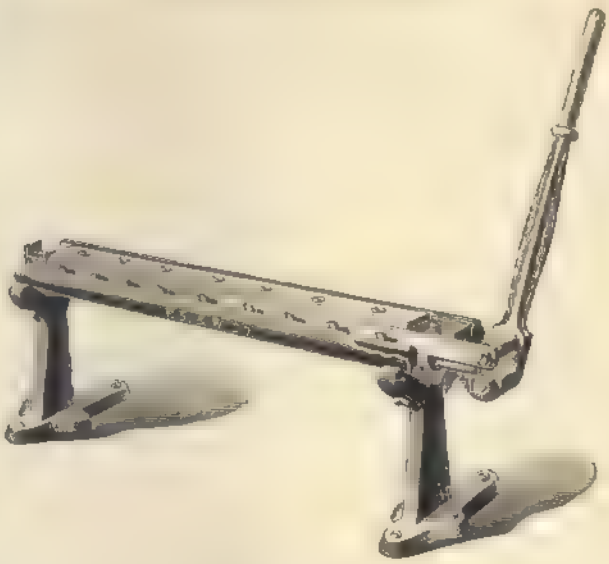
Capacity—No. **24** Gauge Iron and Lighter

These Folders will fold the edges of sheets formed in cylindrical shape. They will prove desirable machines for edging sheets while in the flat as well.

No.	**1**
Shipping Weight Approximately, Pounds	85
Length, Inches	30½
Will Form Locks, Inches	¼ and ⅜
Each List	$61 60

Each

PIPE FOLDING MACHINES



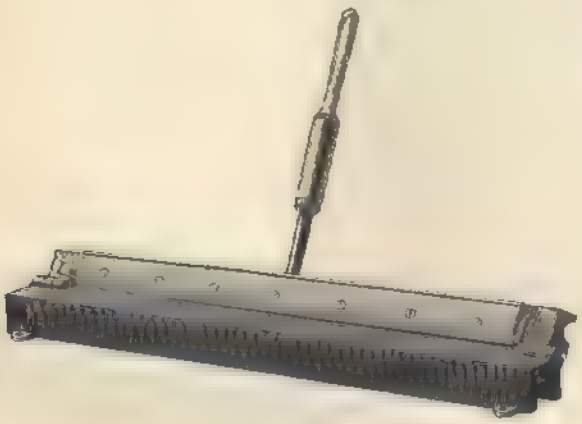
Capacity—No. **22** Gauge Iron and Lighter

We commend these machines for folding the edges for the side seams of round pipe, after being formed, as well as for folding the edges of straight sheets. Their improvements over the Wright's Patent Sheet Iron Folders, consist of an Adjustable Gauge. Variations in the hardness of the material will have no effect upon the uniformity of the lock. Their construction does not permit for folding a lock on pipe as close as the Wright Pattern Pipe Folder, for which reason the Wright Folder is preferable. For folding the edges of Flat Sheets and forming locks on pipe of stiff iron, the patterns shown here will prove more substantial.

No.	**11**
Shipping Weight Approximately, Pounds	100
Length, Inches	32
Will Form Locks, Inches	⅜ to ⅝
Each List	$70.40

Each

SHEET IRON FOLDERS



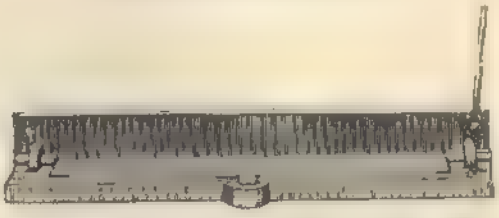
No. **10A**

All iron construction, carefully machined, fitted with planed steel Bending Blades, and where an indispensable Folder is required for ordinary use, they will give excellent satisfaction.

Capacity Gauge Iron and Lighter	22
Shipping Weight Approximately, Pounds	85
Length, Inches	31
Will Form Locks, Inches	¼ to ½
Each List	$59 40

Each

SHEET IRON FOLDER



Capacity No. **28**—No. **22** Gauge Iron and Lighter

This Folder is of all iron construction, carefully machined, fitted with planed steel Bending Blades, and where an indispensable Folder is required for ordinary use, it will give excellent satisfaction

No.	**2**
Shipping Weight Approximately, Pounds	105
Length, Inches	30
Will Form Locks, Inches	⅜ to ⅝
Each List	$39 60

Each

FOLDERS

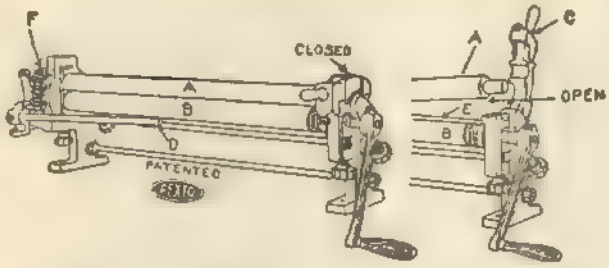
Wood, Roofing

The same care as is exercised in constructing other high priced Folding Machines in the Pexto line is given to Wood Roofing Folders. They are different from the average Wood Roofing Folder on the market which is made in cheap construction to fit a common purpose. Pexto Wood Roofing Folders, while made for the same purpose are constructed with well-seasoned wood with blades fitted of a high grade, special steel, accurately machined and fitted. Finished Hinges and Handles used are not of the cheap grade. They are constructed throughout in a workmanlike price manner

No	123
Weight, Pounds	17
Length, Inches	33
Will Form Locks, Size Inches	¾, ⅞, 1
Each List	$17 05

Each

FORMING MACHINES



Slip Roll, Back-Geared with Compensating Gear

New original Pexto Features are embodied in these Forming Machines Patterns that place them in a class by themselves. They are greatly improved over our old Slip Roll Pattern Forming Machines and those which the present market offers. A careful study of the illustration shows the time and steps saved through being able to perform all operations at one end of the machine, the convenient end where the crank is fitted. Without necessitating the changing of positions the sheet to be formed is placed between the Gripping Rolls. The cylinder formed, open Latch, then by means of Lever raise Upper Gripping Roll and slip the formed cylinder from the Roll. It will be readily seen that all operations are performed at the crank end of the machine—a Pexto innovation that can be well appreciated by the mechanic who has operated the old pattern Slip Roll Former. Rolls are adjusted with knurled Screws, and once adjusted they cannot slip. The Gears are steel, machine cut, running more smoothly than cast iron gears without danger of slipping or breaking with whatever thickness of metal is used

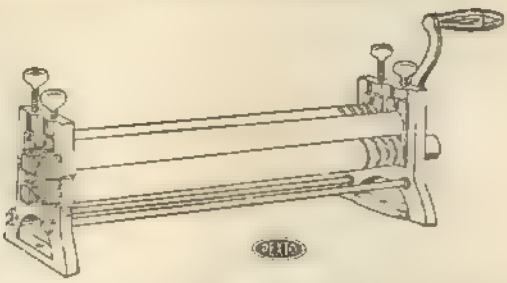
The Roll Raising Mechanism, in these machines is so balanced that the Roll is easily lifted with a slight pressure on the Lever. The Latch is released and closed with one movement, and is self-locking

No	390	400	383	382	381
Shipping Wt. Approximately, Pounds	350	300	150	165	180
Length Rolls, Inches	37	31	31	31	37
Diameter Rolls, Inches	2½	2½	1¾	2	2
Gripping Rolls Open, In.	⅜	⅜	⅜	½	½
Each List	196.00	182.60	74 80	79 20	85 80

Each

Packed One in a Box

FORMING MACHINES

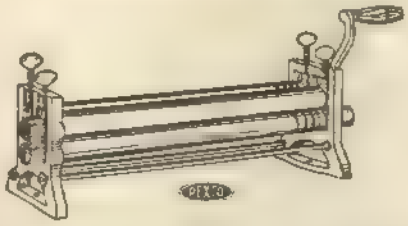


These Formers have Solid Housings and are fitted with machine cut Steel Compensating Gears. Gears to run smoothly should mesh constantly to a certain depth and the shape of the teeth should be accommodated to such depth. In these Formers the gears on the Gripping Rolls do not mesh with each other, but with two Gears so hung that when the Gripping Rolls are moved the mesh of the gearing is unchanged. This insures uniformity of action and durability for the Gears, they running more smoothly than cast iron cogs, without danger of slipping or breaking with whatever thickness of metal is used.

No	372	373
Shipping Weight Approximately, Pounds	165	140
Length Rolls, Inches	37	31
Diameter Rolls, Inches	2	2
Each List	$72 60	$63 80

Each

FORMING MACHINES

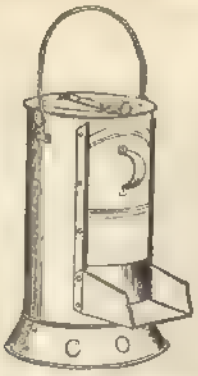


These Formers with Solid Housings have been tried and proven as most excellent for general use. The rolls are finely finished, free from indentations and imperfections and are made from special rolled hard steel. A square hole Heavy Crank is used, an improvement over cranks made with screw thread, in that the rolls may be worked in either direction without the crank screwing from shaft.

No	357
Shipping Weight Approximately, Pounds	140
Length Rolls, Inches	31
Diameter Rolls, Inches	2
Each List	$59 40

Each

CHARCOAL FIRE POTS



Made of heavy black steel, trimmed [illegible], sliding front door, [illegible]. Height 13 inches, body diameter 8 inches, base 10 inches.

Each List $6 00

Each [illegible]

SOLDERING FURNACES

ODIN

Cast iron base, drilled burner, polished steel top, adjustable air mixer, heavy fire-brick hood.

No 2

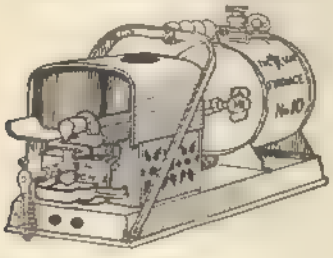
Number of Burners 2

Each List $8 25

Each [illegible]

Packed One in a Carton

SOLDERING FURNACES



STAR

Is designed with special reference to tinners who desire a light, compact and powerful Furnace. As it is only 10 inches high and 20½ inches long it can be easily carried on the wagon and gives no trouble on the roof. The solder pots are only 3 inches above the bench and are convenient to use. The Stove is equipped with self-balancing hand [illegible] shading hood, new Lockless Brass Air Pump, heavy reservoir, safety globe valve, etc.

Galvanized Steel Reservoir

No.	10
Capacity, Quarts	2¼
Length Over All, Inches	20½
Width, Inches	7
Height, Inches	10
Burner, Inches	4¾x1½
Weight, Pounds	12½
Each List	$29 26
Each	

Packed One in a Crate

SOLDERING FURNACES

PENNSYLVANIA

This is the same furnace as our No. 4 with the partition removed. It allows three soldering irons to be heated at one time.

No 5

Each List $12 98

Each [illegible]

Packed One in a Box

SOLDERING FURNACES

PENNSYLVANIA

It has two chambers, entirely separate, being covered with a hood of fire brick having a center partition. Each has a burner and either can be used single, or both can be used at the same time.

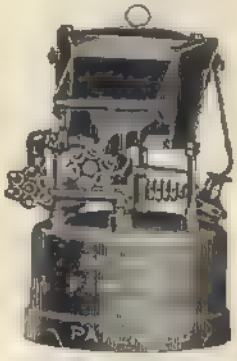
No [illegible]

Each List $12 96

Each [illegible]

Packed One in a Box

TINNER'S GASOLINE FIRE POT



Tinner's Gasoline Fire pot

No. 60

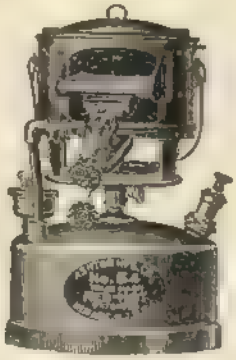
Capacity, Quarts	3
Net Weight, Pounds	9

For Tinners, Roofers and Plumbers. Flame is intensely hot and will produce sufficient heat in the very coldest weather. Tank is heavy gauge steel with welded bottom and brazed lugs. Lead coated inside and out to make it rust proof. Fitted with safety pump and dust proof cover for filler. Burner is of simple construction and easily cleaned. Fire can be turned low and still keep up perfect generation for hours. Very small consumption of gasoline. Carefully tested and inspected.

Each List $24 00

Each [illegible]

FIRE POTS



ASHTON RED HOT

Is Noiseless, Smokeless and Odorless and produces the greatest heat possible to obtain from gasoline gas. The burner has double heating surfaces, each flame burning from the side to the center, and fitted with sub-flame superheating the gas and enabling the user to turn the fire low if desired. It will heat 12 pound soldering coppers and melt a pot of lead at the same time. The tank is made of heavy gauge seamless drawn steel, Tinned inside and out (Rust Proof) with patented Base Band preventing damage to bottom of tank. Fitted with extra large Funnel and Filler Plug with Dust Proof Cap. Not affected by wind or weather.

No	57
Capacity, Quarts	4
Shipping Weight, Pounds	14¾
Each List	$26 93
Each	

Packed One in a Carton

ASHTON RED HOT, FLAT FLAME

Will do a wider range of work than any other and gives universal satisfaction. It will heat perfectly ten pound coppers and melt a pot of metal at the same time. The Top Section is removable and tank, with burner, can be used as a torch. The tank is made of heavy gauge seamless drawn steel, Tinned inside and out (Rust Proof) with patented Base Band, preventing damage to base of tank, and fitted with large funnel, preventing loss of fuel in filling, large filler plug with Dust Proof Cap. All great improvements. The burner is made of generator metal producing a perfect blue flame. Patented automatic brass pump, with double springs quickly supplies needed air pressure. Try it.

No	54
Capacity, Quarts	1
Shipping Weight, Pounds	12
Each List	$26 93
Each	

Packed One in a Carton

DETROIT GASOLINE TORCH

No. 36

Capacity, Quarts	1
Net Weight, Pounds	3½

A wonderful torch for the money. Heavy polished brass tank with pump in handle. Burner of special design will produce a very hot fire using small quantity of gasoline. Detachable soldering iron holder with each torch. Carefully tested and properly adjusted.

Each List	$11 92
Each	

FIRE POTS

ASHTON RED HOT

Is exactly the same as No. 57, except one size smaller which makes it lighter, and a little more compact, but it will do a greater range of work than any other type of Firepot. Very popular with the trade.

No	58
Capacity, Quarts	2
Shipping Weight, Pounds	13½
Each List	$24 44
Each	

Packed One in a Carton

TORCHES

ASHTON

Produces more heat than any other quart torch made. Burner is Improved Double Needle construction. The upper needle clears the orifice, the lower needle regulates the flame. Neither can enlarge the fuel opening and ruin the burner. The tank is made of heavy gauge drawn brass reinforced. Improved automatic pump produces air pressure quickly. A strictly high-grade up-to-date torch that will give perfect satisfaction. Can be used outdoors in zero weather and is wind-proof.

No	107
Capacity, Quarts	1
Shipping Weight, Pounds	5½
Each List	$16 83
Each	

Packed One in a Carton

ASHTON

Is a small but very powerful torch. Tank is one pint capacity made of heavy gauge seamless drawn Brass reinforced. Automatic brass pump produces ample air pressure quickly. Improved double needle burner works perfectly under severe conditions of wind and weather, burning with a steady blue flame. The upper needle cleans the orifice, the lower adjusts the flame. The burner cannot be ruined by forcing the needle thus enlarging the orifice.

No	109
Capacity, Quarts	½
Shipping Weight, Pounds	4
Each List	$15 25
Each	

Packed One in a Box

GROOVERS

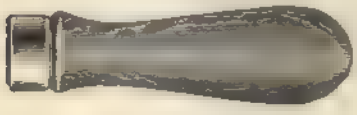
Hand

Pexto Hand Groovers are forged from a special, tough, high-grade steel, scientific[ally] hardened Heads are highly polished. They are known the co[untry] over as the highest grade of excellence and the Tinsmith [Sheet M]etal Worker who does not [use] them [has] reference to all [other] exception and not the rule

No.	00	0	1	2	3	4	5	6	7	8
Weight, Pounds	¼	¼	¼	¼	⅞	⅞	¾	¾	¾	¾
Size Groove, Inches	1/16	1/16	1/32	3/32	1/16	1/16	1/16	1/16	1/16	1/16
Each List		1 87		1 69			1 58			

Each

HANDLES



Fire Proof

Made with tin ferrule which prevents end from burning

No.	1
Size, Inches	5¾
Per Dozen List	$1 76

Per Dozen

One Dozen in a Box

SOLDERING COPPER HANDLES

The hardened Steel casing is made like a die and cuts a thread on the stem of the solder iron as the handle is screwed on. It can't split. It will not burn nor char because the stem of the solder iron bears entirely on the steel casing and doesn't touch the wood at all.

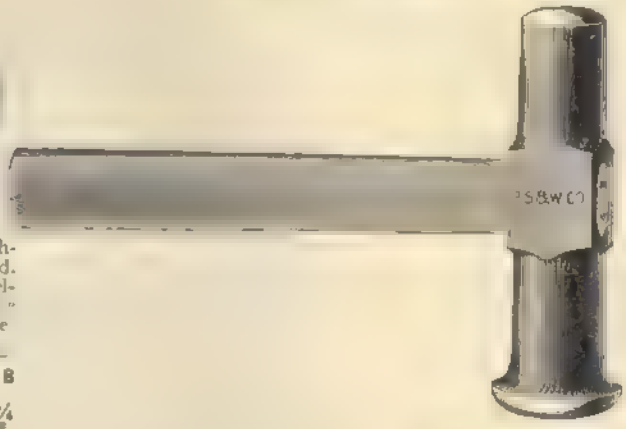
Parker Shur-Grip

No.	7	8	9
For Stems Diameter, Inches	3/8 to 1/2	1/8 to 3/8	3/8 to 3/4
For Soldering Copper, Pounds	1½ to 4	4 to 8	8 to 12
Per dozen List	$4 75	$4 75	$4 75

Per Dozen

Packed One Dozen in a Carton

RAISING HAMMERS



Natural Finish -Polished Faces

Forged from Crucible Steel, well tempered.

No.	Size Faces Inches	Weight Ounces	Each List	Each
1	2½x1¾	82	$11.77	
2	2 x1½	60	7.37	
3	1¾x1¾	36	5.94	
4	1⅝x1⅜	28	4.40	
Extra Handles			.33	

Packed One in a Package

See Pages 116-117-118 for Tinner and Nail Hammers

HANDLES

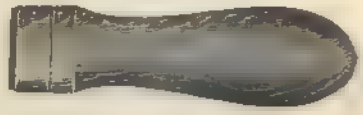
Soldering Iron, Lock Jaw

Length, Inches	5½
Per Dozen List	$2 20

Per Dozen

Packed 50 in a Box

HANDLES



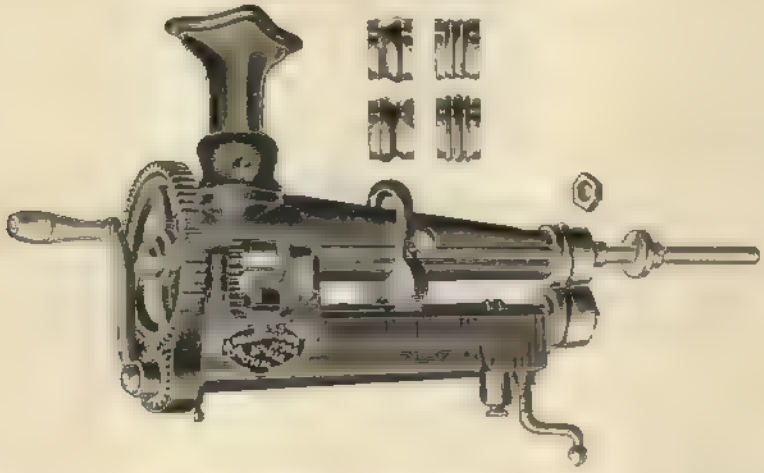
Soldering Iron, Common, Wired

Length, Inches	5½
Per Dozen List	$1 32

Per Dozen

See Page 206 for File Handles

BEADING MACHINES



Capacity—No. 20 Gauge Iron and Lighter

Pexto Beading Machines are most carefully made in a thorough and workmanlike manner. Caps and Frames are re-inforced for maximum strength. They have been in constant use for a century and may be depended upon to give the very best of good service and satisfaction. Driving Gears are cut from solid cast iron. Connecting Gears are machine cut.

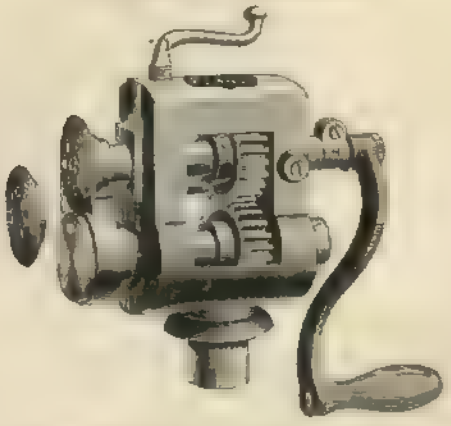
Furnished with Standard unless otherwise specified.

No.	617	619
Each List	$121 00	$90 00
Each		

Packed One in a Box

No.	617	619
Shipping Weight Approximately, Pounds	140	85
Depth Throat to Frame, Inches	11	$7\frac{7}{32}$
Depth Throat to Gauge, Inches	12	$6\frac{3}{4}$
Distance between Shaft Centers, Inches.	$2\frac{5}{8}$	$2\frac{7}{4}$
Diameter Rolls, Inches	$2\frac{3}{4}$	$2\frac{3}{8}$
Width Rolls, Inches	$1\frac{7}{8}$	$1\frac{5}{8}$
Ratio of Gearing	3¼3 to 1	$2\frac{1}{2}$ to 1
Size Single Bead in Rolls, Inches.	$\frac{3}{8}$	$\frac{5}{16}$
Size Open Bead in Rolls, Inches	1	$\frac{7}{8}$
Size Triple Bead in Rolls, Inches.	1	$\frac{7}{8}$

BURRING MACHINES



Capacity—No. 22 Gauge Iron and Lighter

Burring Machines in open pattern, with solid frame of improved design, well known for their splendid wearing qualities, ease and case of operation. The Rolls are forged from special high grade steel, giving extra wearing qualities to the fine edge in the Rolls necessary to produce a satisfactory uniform flange on edges of blanks.

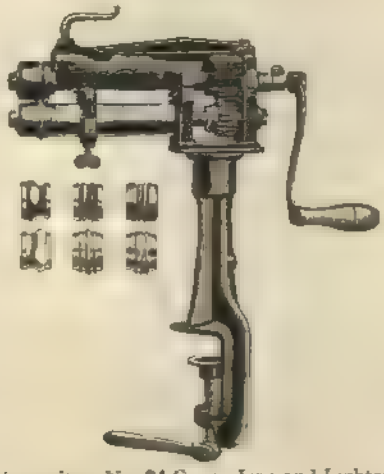
No.	576	577
Shipping Weight Approximately, Pounds.	21	25
Diameter Rolls, Inches	$1\frac{1}{2}$	$2\frac{1}{8}$
Widest Flange or Burr that can be Turned, In.	3-16	$\frac{1}{4}$

Furnished with Standard unless otherwise specified.

Each List	$37 40	$41 80
Each		

Packed One in a Box

BEADING MACHINES



Capacity—No. 24 Gauge Iron and Lighter

A Beading Machine popular with the trade, constructed with reinforced Frame and Cap. Is well known for its long wearing qualities and well suited for ordinary Beading up to its full rated capacity. Connecting Gears are cut from solid steel.

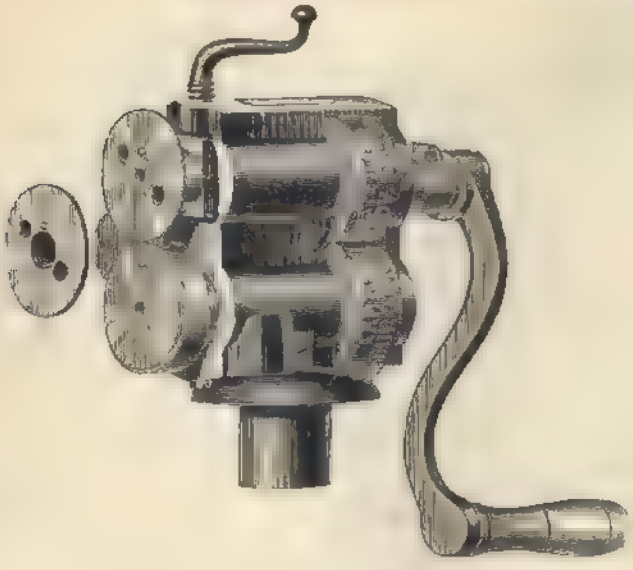
No.	620
Shipping Weight Approximately, Pounds	90
Depth Throat to Frame, Inches	$6\frac{1}{4}$
Depth Throat to Gauge, Inches	$5\frac{1}{2}$
Diameter of Rolls, Inches	$1\frac{9}{16}$
Width of Rolls, Inches	$1\frac{7}{16}$
Distance between Shaft Centers, Inches.	$1\frac{7}{16}$

Furnished with Standard unless otherwise specified.

Each List	$61 60
Each	

Packed One in a Box

BURRING MACHINES



Capacity—No 24 Gauge Iron and Lighter

Pexto Burring Machines are to be found in nearly all good sheet metal shops. Everywhere that sheet metal is to be creased, flanged or burred, there is need for a Pexto. For big work, a big Pexto is to be preferred; on small work, there is a large line of Pexto machines to choose from.

Each of the famous Pexto Bench Machines is accurate to the highest possible degree, practical to the limit, and so simply constructed that durability is assured.

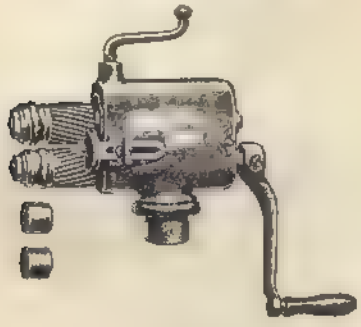
No	579	580
Shipping Weight Approximately, Pounds	21	23
Diameter Rolls, Inches	1¼	2⅛
For Wire as Small as Gauge		
For Wire as large as Gauge		
Widest Flange or Burr can be Turned, Inches	3-16	¼

Furnished with Standard unless otherwise specified

Each List	$52.80	$57 20
Each		

Packed One in a Box

CRIMPER & BEADER



Packham

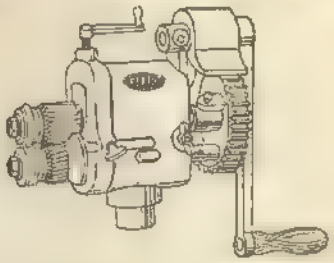
Best low priced, quick acting Crimper and Beader on the market.

Each List $27 50

Each

Furnished with Standard

CRIMPING AND BEADING MACHINES



For producing a neat, uniform crimp and bead or crimp without bead these machines recently made from new patterns will be found superior to any other make for general pipe-crimping or beading. They have been designed with a view to giving maximum strength and rigidity and can be depended upon for producing snug-fitting pipe joints that hold when put together. A very practical feature is offered in the arrangement of the Driving Gears. Two speeds are provided for; back-geared for heavy stock and direct drive when lighter gauges of materials are used. The Driving Gears can be removed and the machine converted instantly into a Direct Acting Crimper by attaching the Crank to Lower Shaft. Connecting Gears are of Machine Cut Steel; the Frame and Cap machined to insure perfect fit of all working parts for accurate and uniform work. Rolls are made of a high-grade steel, scientifically hardened, and the Gauge is of extra wide proportions made from tool steel properly hardened. Adjustments are provided for regulating the relative depth of Crimp and Bead. The adjustment will be found in a Wedge between the rear bearings. This Wedge is adjusted by Wing Nuts in front and back of frame near handle end. The Upper Shaft can be tipped toward front or back, as desired, thus making a deep crimp and shallow bead, or shallow crimp and deep bead. With the Combined Crimping and Beading Machines, blank collars are furnished and may be substituted in place of beading rolls, where crimping alone is desired.

Capacity—No 20 Gauge Iron and Lighter

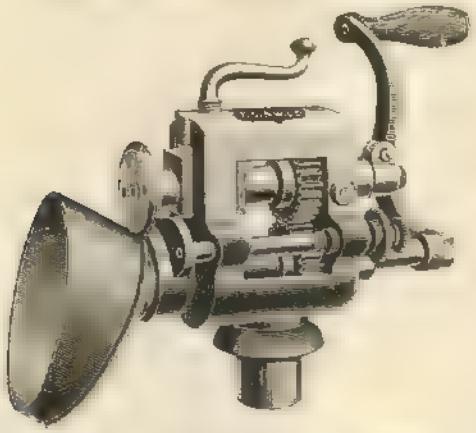
No	585
Shipping Weight, Pounds	65
Diameter Beading Rolls, Inches	1⅝
Diameter Crimping Rolls, Inches	1¾
Width Crimp Rolls, Inches	1¾
Width Bead Rolls, Inches	1
Size Ogee Bead, Inches	⅛
Ratio Gearing	3 to 1
Distance between Shaft Centers, Inches	1¾

Furnished with Standard unless otherwise specified

Each List	$57.20
Each	

Packed One in a Box

ELBOW EDGING MACHINES



Capacity—No 24 Gauge Iron and Lighter

In using this machine one-third of the time spent in putting elbows together can be saved by the operator

The rolls or faces are also sold separate from the machine, and can be used with and are readily adapted to either our Columbian or Encased Small Turning Machine.

No.	551
Shipping Weight Approximately, Pounds	25
Diameter Rolls, Inches	2⅛

Furnished with Standard unless otherwise specified

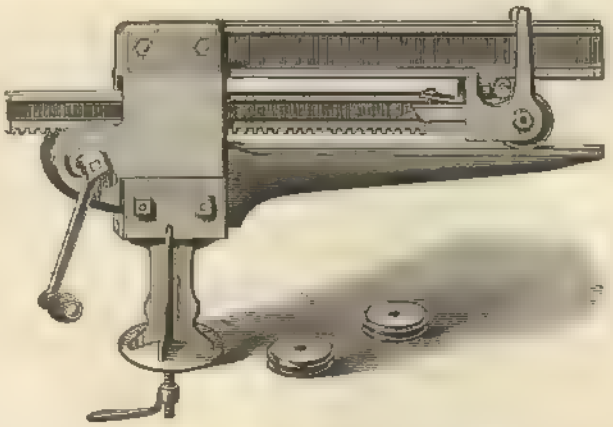
Each List	$11 00
Each	

Extra Edging Rolls

Per Set List	$7 70
Per Set	

Packed One in a Box

GROOVING MACHINES

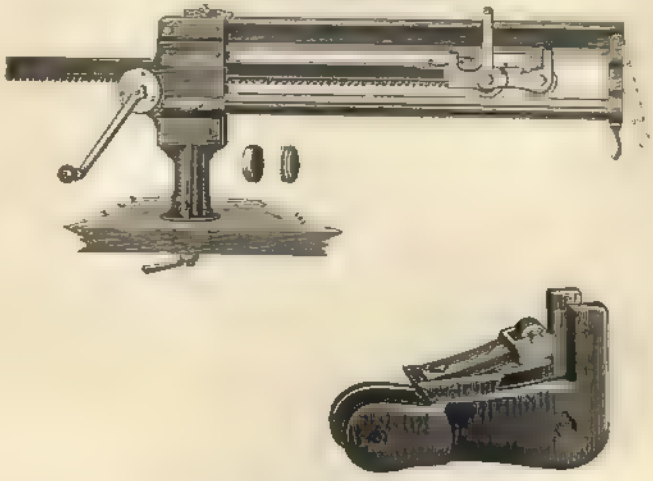


Capacity—No. 24 Gauge Iron and Lighter

These machines are constructed with Steel Bar and Milled Horn They will be found serviceable for grooving the seams on tin cans, pails, boilers, etc. They are easy to operate and simple in construction.

No.	502
Shipping Weight Approximately Pounds	102
Will Groove Work Length, Inches	20
Size of Grooving Horn, Large End, Inches	3
Size of Grooving Horn, Small End, Inches	1⅝
Each List	$70 40
Each	

GROOVING MACHINES

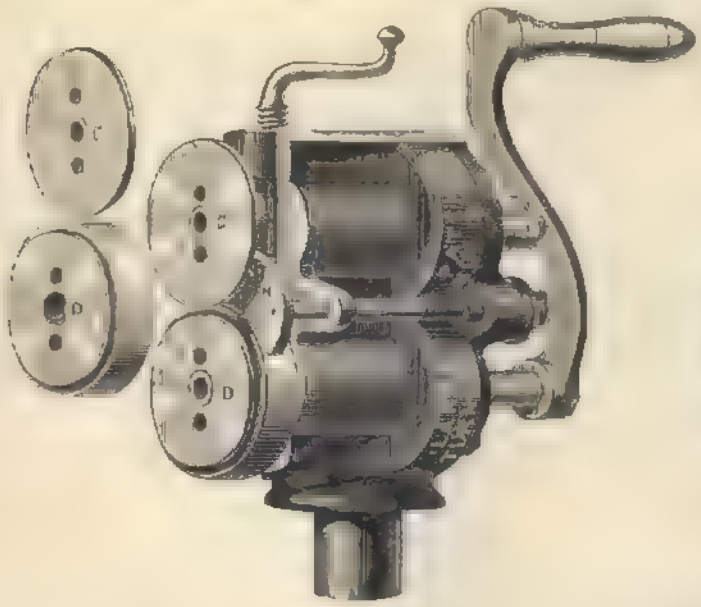


Capacity—No. 22 Gauge Iron and Lighter

These machines are constructed for general grooving and have an improvement consisting of an attachment which grooves and flattens the seams of cylinders in one operation.

No.	506	507
Shipping Weight Approximately, Pounds	151	175
Length Grooving Horn, Inches	33¼	43¼
Will Groove Work Length, Inches	21¼	31¼
Diameter Smallest Pipe that can be Grooved, Inches	2	2
Each List	$110 00	$121.00
Each		

TURNING MACHINES



Capacity—No. 24 Gauge Iron and Lighter

For so indispensable a machine perhaps none in the shop pays for itself as quickly as the Pexto Turning Machine. Very often profits from one job accomplish this. Its usefulness and economy are unquestioned.

The Turning Machine prepares the seat in circular work for receiving the wire, prior to the actual job of wiring

No	545	546
Shipping Weight Approximately, Pounds	23	28
Diameter Rolls, Inches	2½	3
For Wire as small as Gauge	10	8
For Wire as large as Gauge	7	4
Widest Flange or Burr can be Turned, Inches		
Furnished with Standard unless otherwise specified		
Each List	$59 40	$63 80

Each

Packed One in a Box

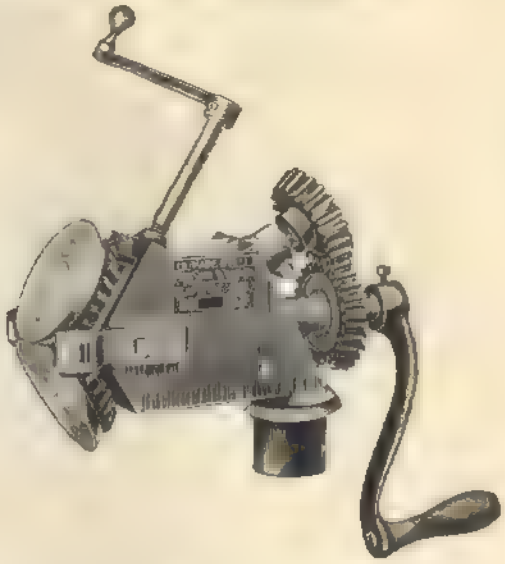
MACHINE STANDARDS

Regular Wiring

No	975	976
	Regular	Wiring
Shipping Weight, Pounds	10¼	11
Size Hole, Inches	1¾	1¾
Height Over All from Bench, Inches	9¾	9¾
Each List	$3 85	$3 85

Each

SETTING DOWN MACHINE



Capacity—No. 24 Gauge Iron and Lighter

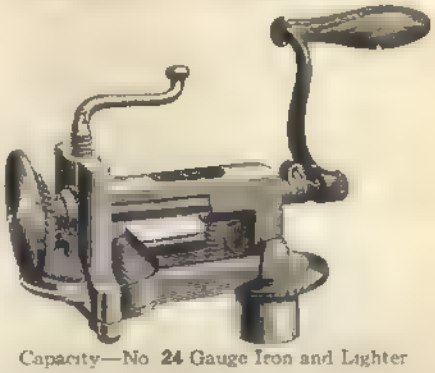
The improvements in Pexto Pattern Setting Down Machines adapt them for setting down the seams on differently shaped vessels to better advantage than any other design. The inclined position of both Upper and Lower Faces allows work to be held up or down the seams to be started inward while setting down, thereby facilitating the operation of double seaming. Adjustable Gauges with Idler Rollers are fitted.

No	561
Shipping Weight Approximately, Pounds	50
Capacity Gauge Iron and Lighter, No	24
For Seams up to, Inches	⅛
Furnished with Standard unless otherwise specified	
Each List	$61.60

Each

Packed One in a Box

SETTING DOWN MACHINE



Capacity—No. 24 Gauge Iron and Lighter

NOTE—This type of Setting Down Machine is preferable for closing the seams in light tinware, etc.

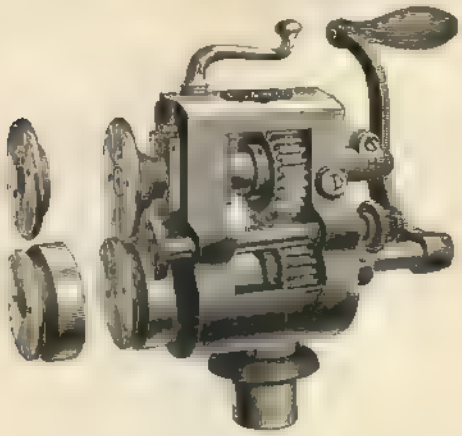
The improvements in Pexto Pattern Setting Down Machines adapt them for setting down the seams on differently shaped vessels to better advantage than any other design.

No	556
Shipping Weight Approximately, Pounds	23
For Seams up to, Inches	3-16
Furnished with Standard unless otherwise specified	
Each List	$52 80

Each

Packed One in a Box

TURNING MACHINES



Capacity—No. 22 Gauge Iron and Lighter

A highly serviceable Turning Machine, with solid, open frame of the highest grade of ex[illegible]. The Tinsmith or Sheet Metal Worker will find in these patterns every modern improvement combined with the highest qu[illegible]aterials

No.	541	542
Shipping Weight Approximately, Pounds	25	41
Diameter Rolls, Inches	2 1/8	3
Smallest Wire that can be turned, Gauge	10	8
Largest Wire that can be turned, Gauge	7	4

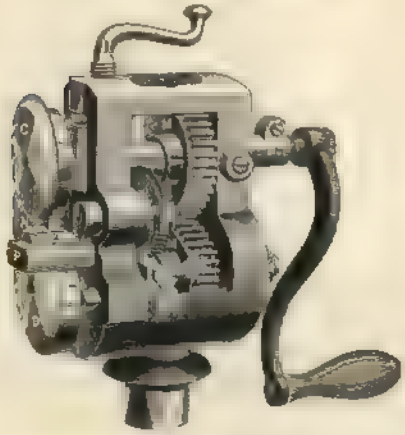
Furnished with Standard unless otherwise specified

Each List	$44 00	$48 40

Each

Packed One in a Box

WIRING MACHINES



Capacity—No. 22 Gauge Iron and Lighter

A Wiring Machine with solid frame that for a good many years through severe tests in the hands of Practical Sheet Metal Workers has won for it a reputation placing it in a class by itself. It may be depended upon to hold its own, whether the job to be turned out is large or small

No.	525
Shipping Weight Approximately, Pounds	31
Diameter of Rolls, Inches	3
Will Receive Wire up to, Gauge	0

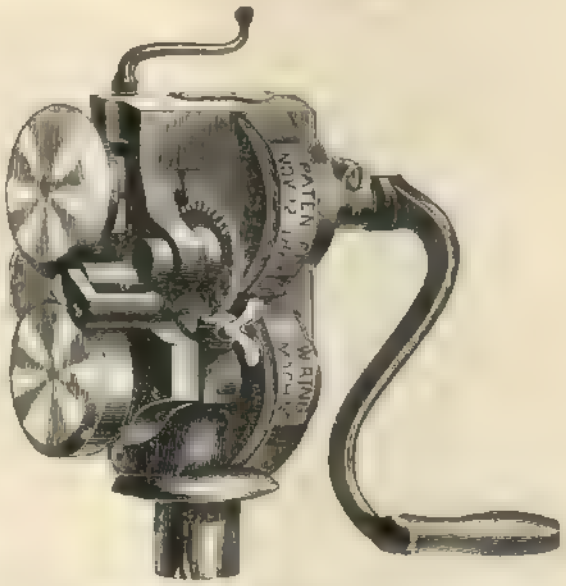
Furnished with Standard unless otherwise specified

Each List	$50.60

Each

Packed One in a Box

WIRING MACHINES



Capacity—No. 24 Gauge Iron and Lighter

A Wiring Machine with solid frame that for a good many years through severe tests in the hands of Practical Sheet Metal Workers has won for it a reputation placing it in a class by itself. It may be depended upon to hold its own, whether the job to be turned out is large or small

No.	526
Shipping Weight Approximately, Pounds	28
Diameter Rolls, Inches	3
For Wire as Small as, Gauge	
For Wire as Large as, Gauge	0

Furnished with Standard unless otherwise specified

Each List	$66 00

Each

Packed One in a Box

MALLETS

First Grade, Second Growth Hickory

	Small	Medium	Large	Extra Large
Size Inches	2¼x5½	2½x5½	2¾x6	3x6
Per Dozen List	$6 93	$7 70	$9 02	$9 79

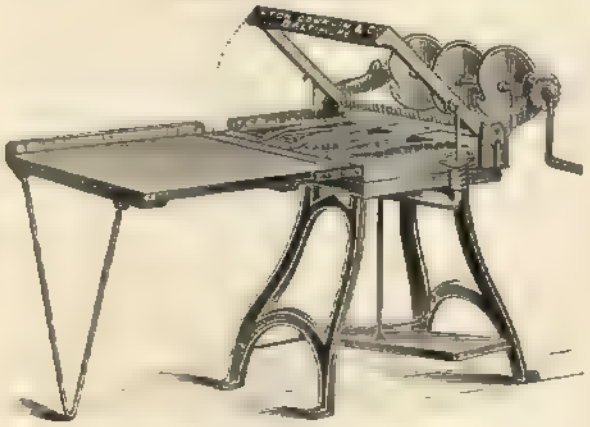
Per Dozen

DOUBLE SEAMERS

Hand Roofing

No.	743	744	745	746
Weight per Set, Pounds	14	16	19	22
Sizes, Inches	¾x¾	¾x1	1x1¼	1¼x1½
Matched up with Roofing Tongs, Inches	¾x1	1x1¼	1¼x1½	1½x1¾
Each List	$3 08	$3 08	$3 30	$3 63
Each				

ROOFING SEAMER



Lyon, Conklin & Co. Patent

We guarantee this machine superior to all others made for this purpose.

1 For rapidity of work.
2 For quality of work.
3 For simplicity of construction, ease in operating.

No metal worker who compares correctly, on time and labor in preparing estimates can afford to be without this machine.

Size, Inches	20	28
Each List	..	..
Each	..	..

Not carried in stock. Factory shipments only.
Prices Upon Application.

ROOFING DOUBLE SEAMER

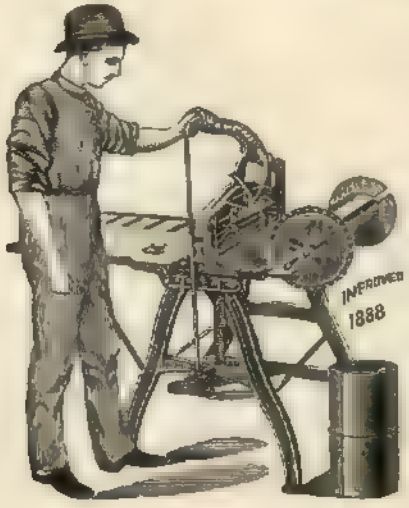
Burritt's Patent for Standing Lock

They will do the work much faster, easier and better than by hand and mallet. They are simple in construction, durable and not liable to get out of order.

Style Gauge	Common	Wide
Adapted for Tongs, Inches	1x1¼	1¼x1½
Finished Seam, Inches	¾	1
Per Set of 2 Pair List	$49.50	
Per Set of 2 Pair		

NOTE—When ordering Seamers please state whether for common or wide gauge.

CROSS LOCK SEAMER



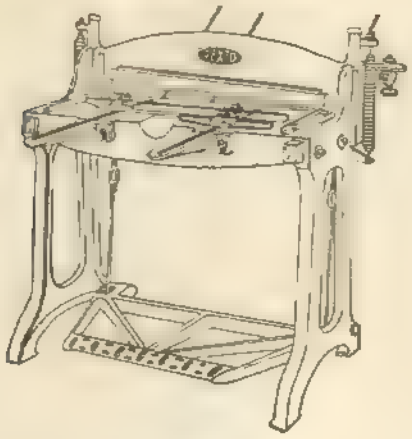
Burritt's Patent

This machine is constructed for fastening together tin strips for roofing and forms the roll ready to lay on the roof. The machine is noiseless in its working and does not deface the tin. It saves solder, makes smooth roofing, presses the lock tightly together so as to prevent slipping, at the same time leaving the top surface smooth and even for soldering.

Size, Inches	20	28
Weight, Pounds	260	333
Each List	$165 00	$187 00
Each		

Not carried in stock. Factory shipments only.

SQUARING SHEARS



Patented

These new patterns are preferred over other Shears owing to their extra wide Bed Plate and are so proportioned that they will cut up to the full rated capacity very much easier than any other similar shears of the same capacity. They are guaranteed to give very excellent service and Pexto high-grade quality materials combined with thorough workmanship make them the most desirable up-to-date, medium weight Shears that the market offers.

Capacity No. 18 Gauge Iron and Lighter

Shipping Weight Approximately, Pounds	540
Length Cutting Blades, Inches	30
Length Long Front Arms	19
Length Rear Gauge Arms, Inches	30
Width Bed Plate, Inches	14

No. **132B** with Side Tables

Each List	$217.80
Each	

No. **132B** without Side Tables

Each List	209.00
Each	

Side Tables will not be sent unless specified.

Shipping Weight Approximately, Pounds	650
Length Cutting Blades, Inches	36
Length Short Front Arms, Inches	
Length Long Front Arms, Inches	25¼
Length Rear Gauge Arms, Inches	30
Width Bed Plate, Inches	14

No. **137** with Side Shelves

Each List	$294.80
Each	

No. **137** without Side Shelves

Each List	286.00
Each	

No. 137 Not Carried in Stock
Factory Shipment Only

SLITTING SHEARS

Chicago

The most efficient shear on the market for slitting sheet steel and for cutting steel bars, band iron, brake band lining, belting, etc. Equipped with adjustable hold-down.

Capacity, 10 Gauge Sheets, ⅜x2 inch Bars

Length of Blade, Inches	4½
Weight, Pounds	22
Each List	$27.50
Each	

SHEARS

"Hercules"

No.	Small	Large
Cutting Capacity, Steel, Inches	⅛	¼
Length Blade, Inches	4	6
Length Lever, Inches	30	72
Size Base, Inches	6x10	8x15
Weight, Pounds	40	190
Each List	$77.00	$198.00
Each		

PEERLESS STEEL SQUARING SHEARS

Peerless Steel Squaring Shears are the strongest and most dur able shears on the market.

Capacities given apply to soft steel or iron in steel running higher in carbon, the hardness of the stock must be taken into consideration.

We do not overrate our machines and material exceeding the extreme thickness recommended by us, should never be used, even if the pieces to be cut are of small width.

The capacity of squaring shears being influenced by the condition of the knives and adjustment, it is suggested when making selections to figure ample leeway capacity.

Peerless Steel Squaring Shears were first placed on the market in 1912 after 20 years' experience in the building of steel machinery by the manufacturers and are now to be found in use in every shop or factory using sheet metal throughout the country.

CONSTRUCTION

Made entirely of steel with the exception of stands and balance weights.

All working parts are of crucible cast steel and machine cut; they are adjustable to allow for wear and grinding.

The bed or table consists of a very heavy channel into which the table plates have been mortised and which is further supported underneath by a heavy plate, set at right angles, riveted the full length to the channel and braced in such manner as to make it the strongest shear bed obtainable; it slides forward or back on lugs cast in the end housings, for adjustment.

The top cutter bar and knife rest is a heavy steel plate, strengthened by a second plate of equal weight, set at right angles, riveted and braced along its full length and further supported by a truss rod with adjustable screw to prevent any possibility of springing or getting out of alignment.

The top cutter bar is fitted into the end housings and works up and down against gibs or guide plates that are adjustable with set screws, so as to take up unavoidable wear.

Front, Back and Side Gauges are furnished with all Peerless Shears, and these shears are to be used for a variety of cutting necessitating frequent and close adjustments of the back gauge, we recommend our Automatic Back Gauge, this gauge moves parallel with the cutting top and is operated through miter gears with hand levers from either end of the machine. When once adjusted it requires no further attention. The use of this gauge saves time and trouble in setting and will pay for itself in a very short time.

The hold-down works automatically with the cutting top, gripping the metal firmly before the knives commence to cut, insuring a clean, straight cut at all times.

PEERLESS FOOT TREADLE SERIES

No.	Blades	Capacity	Approximate Weight
1	30″	18 ga.	550 lbs.
2	36″	18 "	650 "
3	42″	18 "	850 "
4	52″	18 "	970 "
1-A	30″	16 "	600 "
2-A	36″	16 "	700 "
3-A	42″	16 "	950 "
4-A	52″	16 "	1250 "

Cast Iron Foot Power Squaring Shears

No. 01—30″ 16 ga. cap.....
No. 02—36″ 18 ga. cap.....

Note—Shear Blades are 1″ longer than the indicated sizes given above, to allow for bevel cutting.

No. 2 carried in stock, other sizes shipped from factory

PEERLESS STEEL SQUARING SHEARS
Standard

No.	Blades	Capacity	Approximate Weight
5	60″	18 ga.	1300 lbs.
6	72″	18 "	1950 "
8	96″	18 "	2700 "
10	120″	22 "	3200 "
5-A	60″	16 "	1600 "
6-B	72″	16 "	2150 "

Note—Shear Blades are 2″ longer than the indicated sizes given above, to allow for bevel cutting.

Shear Blades for all makes of shears carried in stock and can be furnished on short notice

Price List Effective July 15, 1921

No.	Each List
1	$125 00
2	150 00
3	175 00
4	225 00
5	400 00
6	475 00
8	550 00
10	625 00
1-A	150 00
2-A	175 00
3-A	225 00
4-A	275 00
5-A	425 00
6-A	500 00

STAKES

Candle Mould
Wrought Iron with Steel Faces

No	956
Weight, Pounds	7½
Large End, Length Inches	18½
Small End, Length Inches	0½
Diameter Small End at Wide Point, Inches	1¼
Diameter Small End at Narrow Point, Inches	½
Diameter Large End at Wide Point, Inches	⅞
Diameter Large End at Narrow Point, Inches	½
Each List	$17 60
Each	

STAKES

Double Seaming
Wrought Iron with Steel Faces

No	921
Weight, Pounds	37
Large End, Length Inches	17
Small End, Length Inches	12
Diameter Each End	1¼
Each List	$46 20
Each	

STAKES

Bealhorn
Wrought Iron with Steel Faces

No	901	904
Weight, Pounds	46	27
Round End, Length Inches	16½	14
Flat End, Length Inches	21¾	19
Width of Flat End, Tapers, Inches	2½x1⅞	2x1½
Diameter Round End at Smallest Point, In.	⅜	⅜
Diameter Round End at Largest Point, In.	2½	2
Each List	$52.80	$46 20
Each		

STAKES

Blow Horn
Wrought Iron with Steel Faces

No	925
Weight, Pounds	14
Large End, Length Inches	9
Small End, Length Inches	18
Diameter Small End at Wide Point, Inches	1½
Diameter Small End at Narrow Point, Inches	⅜
Diameter Large End at Wide Point, Inches	4¾
Diameter Large End at Narrow Point, Inches	½
Each List	$28 60
Each	

STAKES

Needle Case
Wrought Iron with Steel Faces

No	967
Weight, Pounds	4
Round End, Length Inches	10½
Flat End, Length Inches	8
Width Flat End, Inches	1
Diameter Round End at Smallest Point, Inches	⅛
Diameter Round End at Largest Point, Inches	¼
Each List	$14.30
Each	

STAKES

Conductor
Cast Iron Polished Face

No	971
Weight, Pounds	28
Length Large End, Inches	15
Length Small End, Inches	11½
Diameter Large End Approximately, Inches	2¼
Diameter Small End Approximately, Inches	1¾
Each List	$19 80
Each	

Fourteenth Annual Complete Car Review

On the following pages is given a complete review of the models which will be manufactured for the coming season by the American Motor Car Manufacturers.

See Complete Indexes on Pages 250D to 250H

Change of Date. This Annual Review has in previous years been published in the March issue. When this date was first adopted it was at the opening of the season, but the season has been opening earlier each year, until now it opens fully three months earlier than it did fourteen years ago. Therefore, we are now again publishing the Review at the opening of the active season — December 1st.

Change of Form.—We have also this year adopted a new form for the Review, much more compact than the old form, and because of this new arrangement we have been able to group the cars of various classes together.

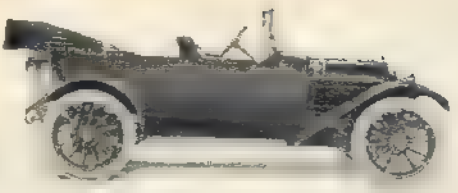
The Data Given was supplied direct by the makers and is as correct as can be obtained. Any omissions or inaccuracies which occur are due to imperfect information given us by makers.

Horse-Power Formula.—All horse-powers are calculated by the S. A. E. formula: H. P. $= \frac{D^2N}{2.5}$; 2-cycle engines by the modified formula, H. P. $= \frac{D^2N}{1.515}$ where D = bore in inches and N = number of cylinders.

Key to Abbreviations will be found on the leaf attached to this page; when this is opened out it will be found very convenient to refer to, no matter which pages of the Review are consulted. Indexes will be found on pages 250D to 250H.

Criticism and Suggestion of this new form for the "Annual Review" is invited. We want to know whether it meets requirements and how it can be made better if possible.

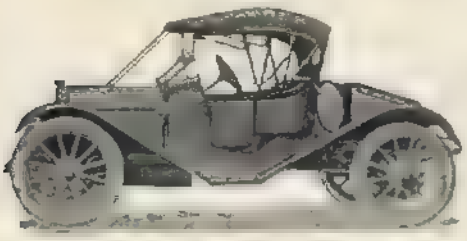
APPERSON MODEL 4-45, 5-PASS. TOURING CAR, $1600.
Also Model 4-45 Sedan ... Limousine $2500.



AMES "KENTUCKY THOROUGHBRED" MODEL 45, 5 PASS. TOURING CAR $1785.

APPERSON LIGHT 4-45 5-PASS. TOURING CAR, $1600.
Also Light 4-45 Turtle Back Roadster, $1600, 4-Pass. Coupe, $2250.

ARBENZ MODEL G, 4-PASS. TOURING CAR $1[illegible]
Also Model F, 5-Pass. Touring Car, $1885.



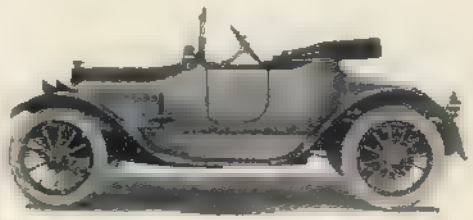
ARBENZ MODEL H, 2-PASS. ROADSTER, $18[illegible]

AMERICAN UNDERSLUNG MODEL 422 2-PASS. ROADSTER, $[illegible]

ABBOTT-DETROIT MODEL 34-40, 5-PASS. TOURING CAR, $1785.
Also Model 34-40, 7-Pass. Touring Car, $2085.

Four-Cylinder

Name of Model	Price	Horsepower	Bore	Stroke	Cylinders Cast	How Cooled	Radiator	Carburetor
Apperson Bros. Automobile Co.,								
Light 4-45	$2250	4 32	4.5	5	S	W	H	R
4-45	[illegible]	5 32	4.5	5	S	W	H	R
Ames Motor Car Co.,								
45	1785	5 27	4.12	5.25	R	C	C	Sl
Allen Motor Co.,								
40	1395	5 27	4.12	5	B	T	H	P
Abbott Motor Co.,								
34-40	1785	4 27	4 12	5.25	B	C	C	2
44-50	2085	7 32	4.5	5.5	P	C	C	2
American Motor Car Co.,								
422	1550	2 26	4	5	B	C	C	R
ArBenz Car Co.,								
...		5 27	4 12	5.5	P	C	H	Sl
Briggs-Detroiter Co.,								
A1	900	5 20	3.5	5	B	T	T	
Buick Motor Co.,								
B-25	1050	5 23	3.75	3 75	P	C	T	M
B-37	1335	5 23	3.75	5	P	C	T	M



BUICK MODEL B-36, 2-PASS. ROADSTER $12[illegible]5

BUICK MODEL B-37, 5-PASS. TOURING CAR $1335

AMES "KENTUCKY THOROUGHBRED" MODEL 45, 2-PASS. ROADSTER, $1745.

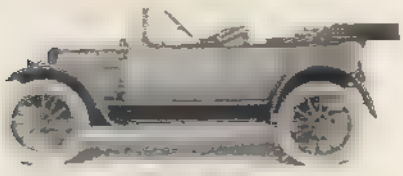
ALLEN MODEL 40, 5-PASS. TOURING CAR, $1395.

Also Model 38, 2-Pass. Roadster, $1395.

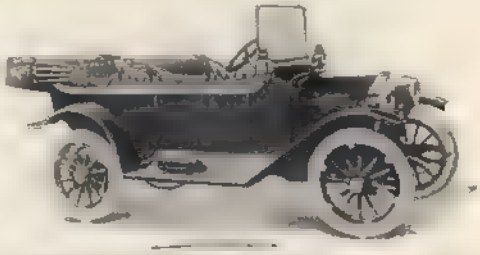
Pleasure Cars

Ignition	Spark Plug Size	Clutch, Style	Style of Drive	Change Speed	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Location	Wheel Base	Engine Number
Kokomo, Ind.										
N	S	B	B	S	F	34x4	34x4	L	116	E
N	S	B	B	S	F	36x4	36x4	L	120	E
Owensboro, Ky.										
R	S	D	B	S	F	.....	.....	L	118	E
Fostoria, O.										
SD	S	D	B	S	F	.....	.....	L	118	E
Detroit, Mich.										
SD	S	D	B	S	F	34x4	34x4	R	116	E
SD	S	D	B	S	F	36x4½	36x4½	R	120	E
Indianapolis, Ind.										
E	S	C	B	S	F	36x3½	36x3½	R	105	A
Chillicothe, O.										
	S	C	B	S	F	36x4	36x4	L	120	E
Detroit, Mich.										
B	⅛	D	B	S	F	32x3½	32x3½	L	104	..
Flint, Mich.										
AC	S	C	B	S	¾	32x3½	32x3½	L	105	E
AC	S	C	B	S	¾	34x4	34x4	L	112	E

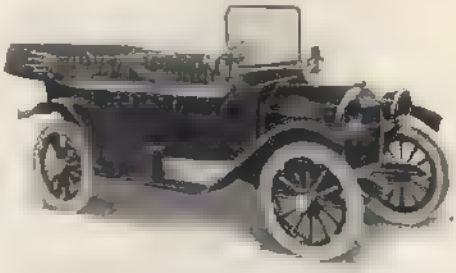
BUICK MODEL B-24 2-PASS ROADSTER, $950.



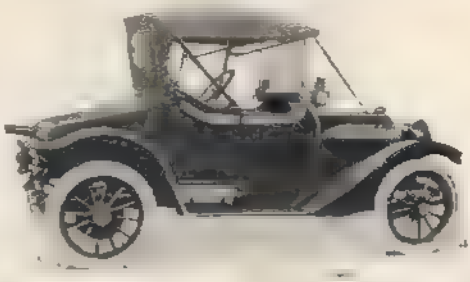
BUICK MODEL B 25, 5-PASS. TOURING CAR, $1050.



BRIGGS-DETROITER MODEL A-1, 5-PASS. TOURING CAR, $900.



BRIGGS-DETROITER MODEL A-2, 5-PASS TOURING CAR, $900.



BRIGGS-DETROITER MODEL A-3, 2-PASS ROADSTER, $900.

BRIGGS-DETROITER MODEL A-4, 2-PASS ROADSTER, $900.

Also Model A-5, 2-Pass. Car, $1025, Model A-6, 5-Pass. Car, $1025.

CUNNINGHAM MODEL M, 7-PASS. TOURING CAR, $3750.

CHEVROLET "ROYAL MAIL" 2-PASS. ROADSTER, $750.

CHEVROLET "BABY GRAND" 4-PASS. TOURING CAR, $875.

FIRESTONE COLUMBUS MODEL 69-D, 3-PASS. ROADSTER, $1850.
(Made by Columbus Buggy Co.)
Also Model 86-E, 5-Pass. Touring Car, $1850; Model 66-E, 5 Pass. Touring Car, $2125.

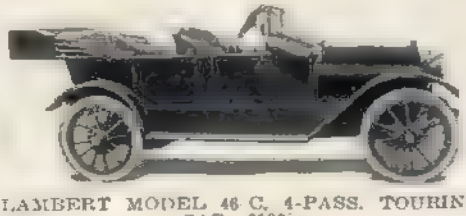
FIRESTONE-COLUMBUS MODEL 82-E, 2-PASS. RACEABOUT, $1050.
(Made by Columbus Buggy Co.)

GLIDE MODEL 36-42, 5-PASS. TOURING CAR, $1840.
Also Model 36-42, 2-Pass. Roadster, $1840.

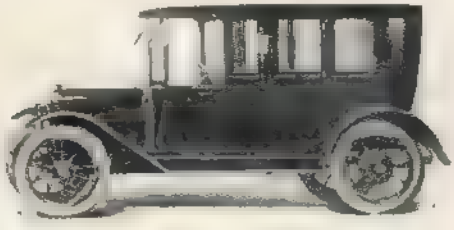
AUBURN MODEL 4 40, 5-PASS. TOURING CAR, $1490.

Four-Cylinder

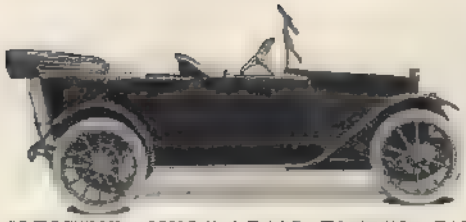
Name of Model	Price	Passengers	Horsepower	Bore	Stroke	Cylinders Cast	How Cooled	Radiator	Carburetor
Auburn Automobile Co.,									
4-40	1490	5	32	4.5	5	B	C	H	SL
Buckeye Mfg. Co.,									
46-C	1200	4	32	3 75	5 25	B	C	T	SL
60-C	1395	5	27	4.12	5.25	B	C	T	SL
Bartholomew Co.,									
36x42	1840	5	27	4.12	5.25	B	C	V	SL
Chevrolet Motor Co.,									
Baby Gr'd	875	4	22	3.69	4	B	T	T	Z
Columbus Buggy Co.,									
86E	1850	5	27	4.12	5.25	P	C	C	SL
66E	2150	5	32	4.5	5.5	P	C	C	SL
69D	1050	3	32	4.5	5	P	C	C	SL
Cartercar Co.,									
7	1250	5	20	3.5	5	B	C	T	SL
5	1700	5	27	4.12	4.75	P	C	T	SL
James Cunningham Son & Co.,									
M	3750	7	36	4.75	5.75	P	C	C	R
Croxton Motor Car Co.,									
	2500	6	27	4.12	5.5	B	T	T	PL
Cadillac Motor Car Co.,									
1914	1975	5	32	4.5	5.75	S	C	T	SP
Crow Motor Car Co.,									
D55	1600	5	29	4.25	5.5	B	T	..	SL
D45	1195	5	26	4	5	P	T	.	SL
Crescent Motor Co.,									
Ohio	1275	5	29	4.25	4.75	P	C	C	SL
Cole Motor Car Co.,									
Four	1925	5	29	4.25	5.25	P	C	C	SB



LAMBERT MODEL 46 C, 4-PASS. TOURING CAR, $1200.
(Made by Buckeye Mfg. Co.)



FIRESTONE-COLUMBUS MODEL 69-D, 7-PASS. LIMOUSINE.
(Made by Columbus Buggy Co.)



CRESCENT "OHIO," 5-PASS. TOURING CAR, $1275.
Also "Royal," 5-Pass Touring Car, $1385.

Pleasure Cars

Ignition	Spark Plug Size	Clutch Style	Style of Drive	Change Speed	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Location	Wheel Base	Engine Starter
Auburn, Ind.										
R	..	C	B	S	F	36x4	36x4	L	120	E
Anderson, Ind.										
BR	S	.	C	F	S	32x3½	32x3½	L	113	E
BR	S		C	F	S	34x3½	34x3½	L	115	E
Peoria, Ill.										
WS	S	D	B	S	F	34x4	34x4	L	118	E
Flint, Mich.										
S	S	C	B	S	S	32x3½	32x3½	L	104	..
Columbus, O.										
SD	S	C	B	S	S	34x4	34x4	L	116	E
C	S	C	B	S	S	36x4½	36x4½	L	122	E
M	S	C	B	S	S	34x4	34x4	L	122	E
Pontiac, Mich.										
LL	S	..	C	F	¾	32x3½	32x3½	R	106	E
BR	S	..	C	F	¾	36x4	36x4	R	116	E
Rochester, N. Y.										
B	S	C	B	S	F	36x4½	36x4½	L	124	E
Washington, Pa.										
E	S	D	B	S	F	35x4½	35x4½	L	121	E
Detroit, Mich.										
DL	S	C	B	S	F	36x4½	36x4½	R	120	E
Elkhart, Ind.										
DR	S	D	B	S	¾	34x4	34x4	R	120	E
S	S	D	B	S	S	33x4	33x4	R	114	E
Carthage, O.										
SD	S	D	B	S	S	34x4	34x4	R	116	E
Indianapolis, Ind.										
DL	..	C	B	S	F	34x4½	34x4½	L	120	E

CARTERCAR MODEL 7, 5-PASS TOURING CAR, $1250.
Also Model 7, 2-Pass. Roadster, $1250.

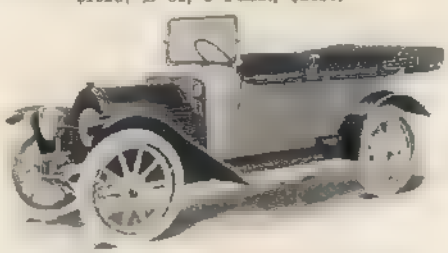
CROXTON MODEL A-4, 4-PASS. TOURING CAR, $2500.

CADILLAC 5 PASS. TOURING CAR, $1975
Also 7-Pass. Touring Car, $2075, 4-Pass. Phaeton $1975; 2 Pass. Roadster, $1975; 3-Pass. Landaulet Coupe $2500, 6 Pass Inside Drive Limousine, $2800; 7-Pass. Standard Limousine, $3250

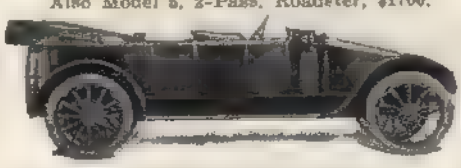
COLE "FOUR," 5-PASS. TOURING CAR, $1925.
Also "Four," 2, 3 and 4-Pass. Cars.

CROW ELK-HART MODEL D-45, 5-PASS. TOURING CAR, $1185.
Also Model D-42, 2-Pass. Roadster, $1150.

CROW ELK-HART MODEL D-55, 5-PASS. TOURING CAR, $1600.
Also Model D-52, 2-Pass., $1575, D-54, 4-Pass., $1625, D-56, 6-Pass., $1650.



CARTERCAR MODEL 5, 5-PASS. TOURING CAR, $1700.
Also Model 5, 2-Pass. Roadster, $1700.



CROXTON MODEL B-6, 6 PASS TOURING CAR, $3000.

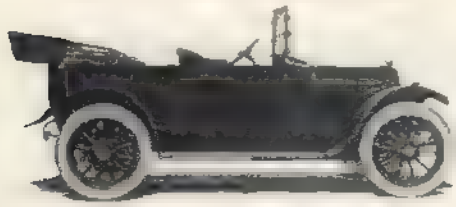
CAMERON MODEL 30, 5-PASS. TOURING CAR, $1200

DAVIS MODEL 35-K 2 PASS ROADSTER, $1335.

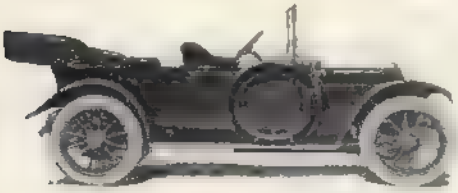
CHALMERS "36," 5-PASS. TOURING CAR, $1775
Also "36," 4-Pass. Torpedo, $1775

Four-Cylinder

Name of Model	Price	Passenger Capacity	Wheelbase	Bore	Stroke	Cylinders (Cast or Block)	Valves (Cast or Block)	Radiator	Carburetor
	Cameron Mfg. Co.,								
	1200	5	21	3.62	5	B	T	..	K
	Chalmers Motor Co.,								
19	1775	5	29	4.25	5.25	B	C	C	R
	Coey-Mitchell Automobile Co.,								
Special	1095	5	48	5.5	5.25	P	T	H	SL
	Corbitt Automobile Co.,								
F	1650	5	26	4	4.5	P	C	C	SB
	J. I. Case T. M. Co., Inc.,								
25	1250	5	23	3.75	4.75	P	C	C	R
35	1850	5	29	4.25	5.5	P	C	C	R
40	2300	5	32	4.5	5.25	P	C	C	R
	George W. Davis Motor Car Co.,								
50-A	1985	5	32	4.5	5.5	P	C	C	SB
35-J	1335	5	20	3.5	5	B	T	T	SB
	Dispatch Motor Car Co.,								
G-3	900	5	23	3.75	5	B	T	H	Z
	Doris Motor Car Co.,								
I	2250	7	30	4.38	5	T	C	V	F
	Empire Automobile Co.,								
[illegible]	900	5	23	3.75	4.5	P	T	V	H
	Elkhart Carriage & Harness Mfg. Co.,								
Pratt 36	2150	5	32	4.5	5.75	P	C	C	H
	Enger Motor Car Co.,								
A	1285	5	32	4.5	5.25	P	C	H	SL
	Easton Machine Co.,								
D	3600	5	33	4.63	5	S	C	H	SB
	Flyer Motor Car Co.,								
A	495	2	23	2.75	4.5	B	T	V	MY



CASE MODEL 25, 5-PASS. TOURING CAR, $1850.
Also Model 25, 5-Pass. Touring Car, $1250.



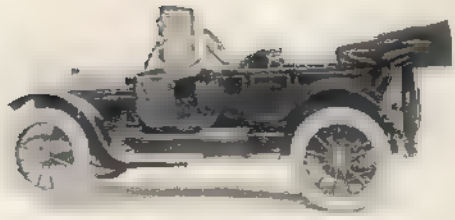
CASE MODEL 40, 5 PASS. TOURING CAR, $2300.
Also Model 40, 7-Pass. Touring Car, $2500.

COEY SPECIAL, 5 PASS. TOURING CAR, $995.

CORBITT MODEL E, 4-PASS. TOURING CAR, $1600.

DORRIS MODEL I, 7-PASS. TOURING CAR, $2550.

CORBITT MODEL D, 2-PASS. ROADSTER, $1450.



DAVIS MODEL 60-A, 5-PASS. TOURING CAR, $1985.

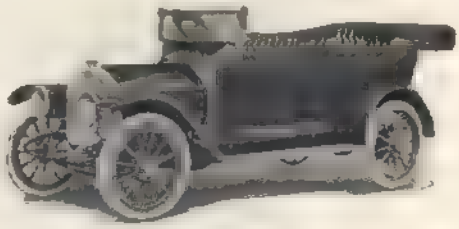
Pleasure Cars

Ignition	Spark Plug Size	Clutch, Style	Style of Drive	Change Speed	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Location	Wheel Base	Engine Starter
				New Haven, Conn.						
..	½	C	B	S	F	32x3½	32x3½	L	115	E
				Detroit, Mich.						
SD	..	D	B	S	F	36x4	36x4	R	118	
				Chicago, Ill.						
B	S	D	B	S	F	34x4	34x4	R	128	..
				Henderson, N. C.						
A	S	D	B	S	F	34x4	34x4	R	120	E
				Racine, Wis.						
B	S	D	B	S	¾	32x4	32x4	L	110	E
B	S	D	B	S	F	35x4½	35x4½	L	120	E
B	S	D	B	S	F	37x4½	37x4½	R	124	E
				Richmond, Ind.						
M	S	C	B	S	F	37x4½	37x4½	R	118	E
.	S	D	B	S	¾	33x4	33x4	L	112	E
				Minneapolis, Minn.						
SD	½	D	C	F	D	36x3½	36x3½	R	120	..
				St. Louis, Mo.						
B	S	D	B	S	F	36x4½	36x4½	L	121	E
				Indianapolis, Ind.						
E	S	D	B	S	S	.....	.....	R	100	
				Elkhart, Ind.						
S	S	D	B	S	F	36x4	36x4	R	122	E
				Cincinnati, O.						
R	½	D	B	S	F	34x4	34x4	R	120	..
				S. Easton, Mass.						
E	M	D	B	P	S	36x4½	36x4½	R	127	E
				Elizabeth, N. J.						
..	½	D	B	S	F	.....	.....	L	100	..

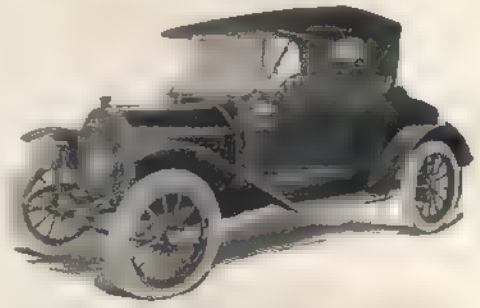
CORBITT MODEL F 5-PASS. TOURING CAR, $1650.

PRATT "FIFTY" MODEL D. 7-PASS TOURING CAR, $2300
(Made by Elkhart Carriage & Harness Co.)
Also 2-Pass., $2100; 4-Pass., $2150; 5-Pass., $2150.

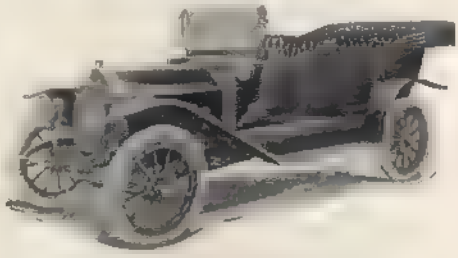
EMPIRE MODEL 31, 5-PASS. TOURING CAR, $900.



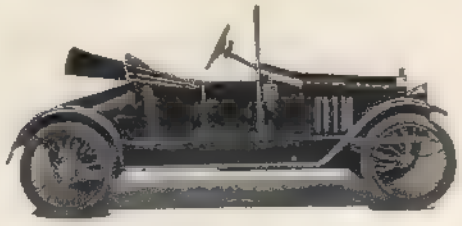
ENGER MODEL G 5-PASS TOURING CAR, $1585.



ENGER MODEL C, 2-PASS ROADSTER, $1285.



ENGER MODEL B, 5-PASS. TOURING CAR, $1435.
Also Model A, 5-Pass. Touring Car, $1285.



FLYER MODEL A, 2-PASS. RUNABOUT, $495.

F. I. A. T. MODEL 55, 7-PASS. TOURING CAR, $4500.

Also Model 55 Runabout, $4500; Roadster, $4500; Limousine, $5400; Landaulet, $5600, Berline, $5800.

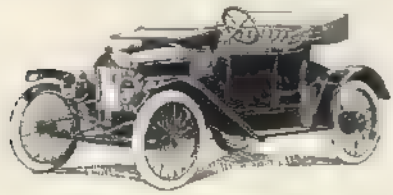
F. I. A. T. MODEL 54 LANDAULET, $5100.

Also Model 54 Touring Car and Phaeton, $4000; Runabout, $4000; Limousine, $5000; Berline, $5300.

FORD MODEL T, 5-PASS. TOURING CAR, $550.

FORD MODEL T, 2-PASS. ROADSTER, $500

Also Model T Town Car, $750.



GRANT 2-PASS. ROADSTER, $495.

G. J. G. 2-PASS. SPEEDSTER, $2500.

GREAT WESTERN 5 PASS. TOURING CAR, $1710.

Also 4-Pass. Touring Car, $1710; 2-Pass. Roadster, $1710.

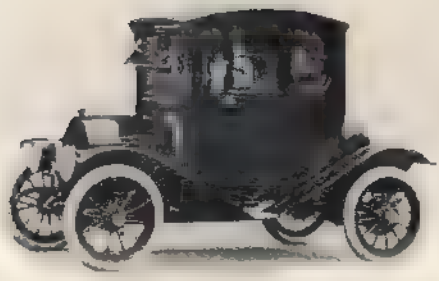
Four-Cylinder

Name of Model	Price	Passengers	Horsepower	Bore	Stroke	Cylinder Cast	Head Cast	Radiator	Carburetor
Ford Motor Co.,									
T	550	5	23	3.75	4		B	T	V	H
F. I. A. T.,									
55	5000	5	42	5.13	6.75		B	C	H	SP
54	3500	5	32	4.4	6		B	C	H	SP
Great Western Automobile Co.,									
	1710	5	29	4.25	5		S	C	T	K
G. J. G. Motor Car Co.,									
Speedster	2500	2	36	4.75	5		P	C	H	SL
Great Southern Automobile Co.,									
50	1750	7	44	5.13	6		P	C	H	SB
Grant Motor Co.,									
	495	2	23	3.75	4		P	T	C	MY
Herreshoff Motor Co.,									
4-90	1350	6	19	3.38	4.5		B	T	T	SB
Hupp Motor Car Co.,									
32	1050	5	17	3.25	5.5		B	T	C	Z
Haynes Automobile Co.,									
28	1985	5	29	4.25	5.5		P	C	C	SB
Henderson Motor Car Co.,									
De Luxe	1785	5	27	4.13	6.5		B	T	H	O
L't Four	1585	5	27	4.13	5.25		B	T	H	R

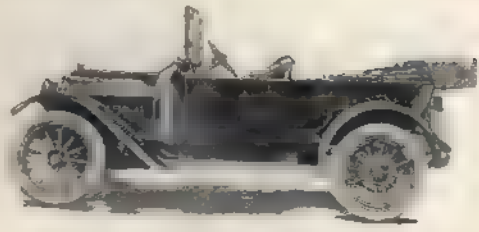
HUPMOBILE MODEL HM, 6-PASS. TOURING CAR, $1200.

HENDERSON "DE LUXE," 5-PASS. TOURING CAR, $1785.

Also "De Luxe," 2-Pass. Roadster, $1785; "High Four," 5-Pass. Touring Car and 2-Pass. Roadster, $1585.



HERRESHOFF MODEL 4-30 COUPE, $1650.



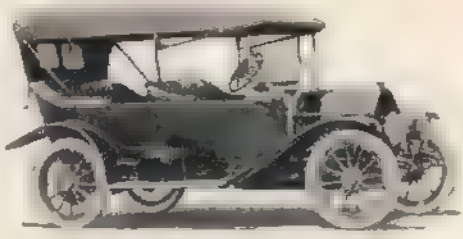
HAYNES MODEL 28, 5-PASS. TOURING CAR. $1955.

Also Model 28, 2-Pass. Roadster, $1985; Coupe, $2700.

Pleasure Cars

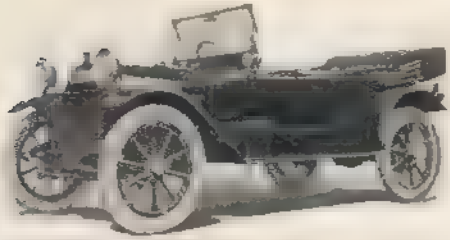
Lubricant	Spark Plug Size	Carburetor No.	Number of Drive Chains	Type of Rear Axle	Number and Type of Front Springs	Size of Tires Rear Front	Gear Ratio	Wheel Base	Engine Number
				Detroit, Mich.					
SP	..	C	B	L	F	30x3	L	100	..
				Poughkeepsie, N. Y.					
B	..	D	B	S	S	36x4½ 37x5	R	128	E
B	..	D	B	S	S	36x4½ 36x4½	R	123	E
				Peru, Ind.					
K	S	C	B	S	F	36x4 36x4	R	118	E
				White Plains, N. Y.					
B	S	C	..	..	F	34x4 34x4	..	121	O
				Birmingham, Ala.					
B	S	C	B	S	S	36x4 36x4½	R	128	O
				Detroit, Mich.					
..	S	C	B	P	F	28x3 28x3	L	90	.
				Detroit, Mich.					
WS	S	D	B	S	S	32x3½ 32x3½	L	100	E
				Detroit, Mich.					
B	S	D	B	S	F	33x4 33x4	R	106	E
				Kokomo, Ind.					
S	S	B	B	S	F	34x4 34x4	L	118	E
				Indianapolis, Ind.					
E	S	C	B	S	F	35x4½ 35x4½	L	116	E
E	S	C	B	S	F	35x4½ 35x4½	L	116	E

HERRESHOFF MODEL 4-30, 2-PASS. ROADSTER, $1250.



HERRESHOFF MODEL 4-30, 5-PASS. TOURING CAR, $1350.

HUPMOBILE MODEL HR, 2-PASS ROADSTER, $1050.



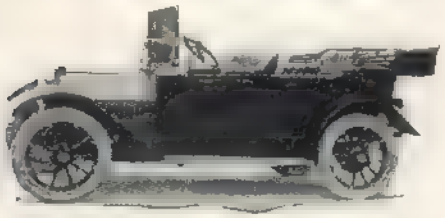
HUPMOBILE MODEL H, 5-PASS. TOURING CAR, $1050.

HUPMOBILE MODEL HAK, 3-PASS. COUPE, $1350.

IMPERIAL MODEL 32, 5-PASS. TOURING CAR, $1500.

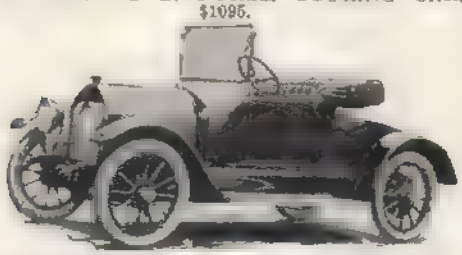
JEFFERY "FOUR," 5-PASS. TOURING CAR, $ 550.
Also "Four," 2-Pass. Roadster, $1550; "Cross Country," 2, 4, 5 and 7-Pass. Cars, $1875.

JACKSON "MAJESTIC" 5-PASS. TOURING CAR, $1885.
Also "Olympic," 5 Pass. Touring Car, $1385.

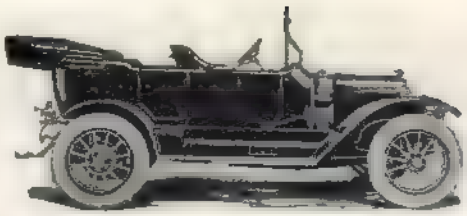


KLINE MODEL 4-40, 5-PASS. TOURING CAR, $1385.
Also Model 4-40, 2 and 4-Pass. Cars, $1985; MODEL 4-30, 5-PASS. TOURING CAR AND 4-PASS. TOY TONNEAU, $1685.

KING MODEL B, 5-PASS. TOURING CAR, $1095.



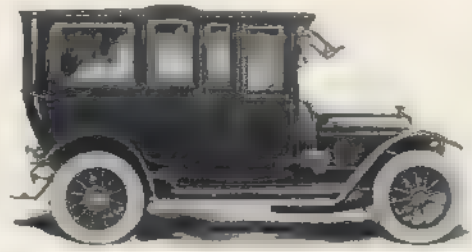
KING MODEL B, 2-PASS. ROADSTER, $1095.



KNOX MODEL 44, 5-PASS. TOURING CAR, $3400.

Four-Cylinder

Name of Model	Price	Passengers	Horsepower	Bore	Stroke	Cylinders Cast	How Cooled	Radiator	Carburetor
	Crown Motor Car Co.,								
A	385	2	14	3	3.75	B	W	H	KI
	Day Auto Company,								
	1500	5	28	4	4.5	P	G	T	SL
	Imperial Automobile Co.,								
32	1500	5	29	4.25	5.25	B	G	H	SB
	Thomas B. Jeffery Co.,								
Jeffery 4	1550	5	23	3.75	5.25	B	C	V	R
CrossCry	1875	5	27	4.13	5.25	S	C	V	SB
	Jackson Automobile Co.,								
Olympic	1385	5	27	4.13	4.75	P	T	V	SL
Majestic	1885	5	32	4.5	5.5	P	T	H	SL
	Kissel Motor Car Co.,								
40-5	1850	5	32	4.5	5.25	P	C	T	S
	Krit Motor Car Co.,								
LT	950	5	23	3.75	4	B	T	T	SB
	Knox Automobile Co.,								
44	....	..	46	5	5.5	S	C	C	SB
45	....	..	40	5	5.5	S	C	C	SB
	King Motor Car Co.,								
B	1095	5	24	3.88	5	B	T	C	SB
	Kline Motor Car Corp.,								
440	1985	5	30	4.31	5.5	P	C	C	..
430	1685	5	33	4	4.63	S	C	C	..
	Lyons Atlas Co.,								
K4	2900	5	32	4.5	5.5	P	C	C	SB
	Maxwell Motor Co., Inc.,								
25-4	750	5	21	3.63	4.5	B	T	T	ZP
35-4	1225	5	26	4	4.75	B	C	T	H
	H. A. Moyer,								
E	2500	5	32	4.5	5	P	C	H	C



KNOX MODEL 45, EXTENSION LIMOUSINE, $4700.

MOYER MODEL E, 6-PASS. TOURING CAR, $2500

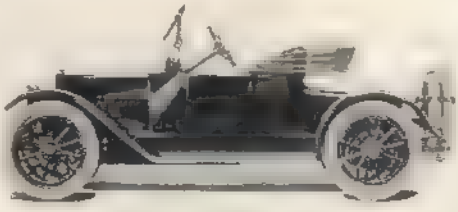
MAXWELL MODEL 25-4, 5-PASS. TOURING CAR, $750.

Pleasure Cars

Ignition	Spark Plug Size	Clutch, Style	Style of Drive	Change Speed	Type Rear Axle	Size and Type Front Tires	Size and Type Rear Tires	Control Location	Wheel Base	Engine Starter	
Louisville, Ky.											
BR	..	..	..	F	F	.....	.....	..	90		
Detroit, Mich.											
R	S	D	B	S	F	34x4	34x4	..	116		
Jackson, Mich.											
R	S	D	B	S	F	34x4	34x4	L	114	E	
Kenosha, Wis.											
B	S	C	B	S	F	34x4	34x4	L	116	E	
R	½	C	B	S	¾	36x4	36x4	R	120	E	
Jackson, Mich.											
R	S	C	B	S	S	34x4	34x4	R	115	E	
R	S	C	B	S	F	34x4	34x4	R	124	E	
Hartford, Wis.											
B	S	C	B	S	F	36x4	36x4	L	121	E	
Detroit, Mich.											
B	½	D	B	S	½	32x3½	32x3½	L	108		
Springfield, Mass.											
B	S	D	B	S	F	36x4½	36x4½	R	117	E	
B	S	D	B	S	F	37x5	37x5	R	128	E	
Detroit, Mich.											
BR	S	D	B	S	F	33x4	33x4	L	112	E	
Richmond, Va.											
B	M	C	B	S	F	36x4	36x4	L	120	E	
B	M	C	B	S	F	34x4	34x4	R	115	E	
Indianapolis, Ind.											
S	M	D	W	S	F	37x5	37x5	L	130	E	
Detroit, Mich.											
S	S	C	B	S	S	30x3½	30x3½	L	103		
SD	S	C	B	S	S	34x4	34x4	L	110	E	
Syracuse, N. Y.											
M	S	C	B	S	F	34x4	34x4	R	121	L	

MAXWELL MODEL 25-4, 5-PASS. TOURING CAR, $1225.

LYONS-KNIGHT MODEL 5-PASS. TOURING CAR, $2980



KISSEL KAR MODEL 40, 2 PASS. ROADSTER, $1850.

KISSEL KAR MODEL 40, 5-PASS. TOURING CAR, $1850.

KISSEL KAR MODEL 40, COUPE, $2850.

KRIT MODEL L, 5-PASS. TOURING CAR, $950.

Also Model L, 2-Pass. Roadster, $950.

MARION MODEL B-5, 5-PASS. TOURING CAR, $1650.
Also Model B, 2 and 4-Pass. Cars, $1650

MOLINE KNIGHT 5-PASS. TOURING CAR, $2400

MERCER MODEL J, 2-PASS. RACEABOUT, $2600.

MERCER MODEL M, 5-PASS. TOURING CAR, $3000.

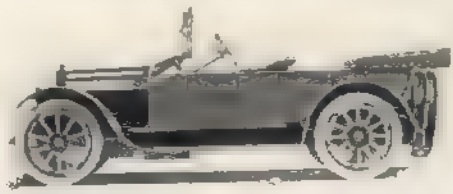
MERCER MODEL O, 2-PASS. ROADSTER, $2800.

MERCER MODEL H, 5-PASS. TOURING CAR, $2900.

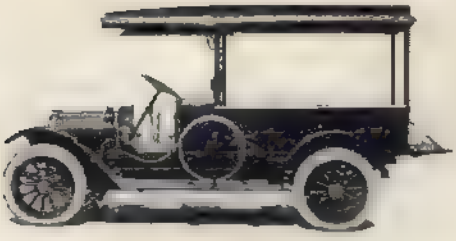
METZ MODEL 22, 2-PASS. TORPEDO, $475.

Four-Cylinder

Name of Model	Price	Passengers	Horsepower	Bore	Stroke	Cylinders Cast	How Cooled	Radiator	Carburetor
Lenox Motor Car Co.,									
C	2000	5	29	4 25	5.5	B	G	H	SP
Moline Automobile Co.,									
	2400	5	36	4	6	B	T	T	..
Mason Motor Co.,									
L	1350	5	24	3.86	5	B	T	T	R
Marion Motor Car Co.,									
B	1650	5	36	4	5	P	C	C	R
Mitchell-Lewis Motor Co.,									
Four	1595	5	29	4.25	7	P	C	C	R
Moon Motor Car Co.,									
42	1750	5	32	4.5	5	P	C	H	..
Mercer Automobile Co.,									
Series J	2600	2	31	4.63	5	P	C	C	F
Series M	2000	5	32	4.5	5	P	C	C	F
Series O	2900	3	32	4.5	5	P	C	C	F
Metropol Motors Co.,									
C	1350	2	29	4 25	7.88	B	W	H	R
Monarch Motor Car Co.,									
	1050	5	16	3.19	5	P	T	T	ZP
Metz Co.,									
22	475	2	23	3.75	4	B	T	T	H
Martindale & Milliken,									
XXVII	1800	5	32	4.5	4.5	B	C	V	SL
30	1000	5	20	3.5	5	B	T	V	..
Marathon Motor Works,									
Runner	975	5	20	3 6	4.5	P	T	V	M
Winner	1325	5	29	4 25	4.5	P	T	V	M
Champ'n	1495	7	32	4.5	5.13	P	T	V	M
Nordyke & Marmon Co.,									
32	3000	5	32	4.5	5	P	C	H	Z



MOON MODEL 42, 5-PASS. TOURING CAR, $1750.
Also Model 42, 2 and 4-Pass. Cars, $1750.



MACCARR MODEL A, COVERED FLARE BOARD, $1825.

Commercial Cars

Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
				Cleveland, O.					
SB	B	S		C	B S	*	*	L	126
				Dayton, O.					
SB	B	S		D	C S	. .	....	..	. .
				Butler, Pa.					
SB	B	S		D	B S	*35x4½	*35x4½	L	126
				Kenosha, Wis.					
R	B	S		D	B S	*34x4½	*34x4½	R	120
				Hartford, Wis.					
SB	B	S		C	S S	*34x4½	*34x4½	..	125
				Clyde, O.					
..	B	S		C	B S	*34x4	*34x4	L	100
				Beavertown, Pa.					
SL	R	..		..	C F	.....	... .	R	100
				Chicago, Ill.					
SL	R	S		D	C L	34x2½	36x2½	R	117
				Buffalo, N. Y.					
R	E	S		C	B S	*35x4½	35x4½	L	125
				Waterloo, Ia.					
SL	SD	½		C	C L	*32x3½	*32x3½	R	96
				Allentown, Pa.					
SB	B	S		D	B S	*36x4½	*36x4½	L	120
				Los Angeles, Cal.					
SL	WS	½		D	B S	.....	.. .	R	126
				Indianapolis, Ind.					
.	..	..		C	B S	*32x4	*32x4	R	120
				Menominee, Mich.					
SL	R	S		D	B S	.....	.....	R	...
				Syracuse, N. Y.					
SP	B	½		..	C L	36x2½	36x3	R	103
				Baltimore, Md.					
..	B	..		C	.. S	34x4½	35x5	..	130
				Ann Arbor, Mich.					
O	O	..		D	C S	34x3	34x3½	..	110

PALMER-MOORE MODEL C, FLARE BOARD, $1275.

MENOMINEE MODEL A-8, FLARE BOARD, $1200.
(Made by D. F. Poyer Co.)

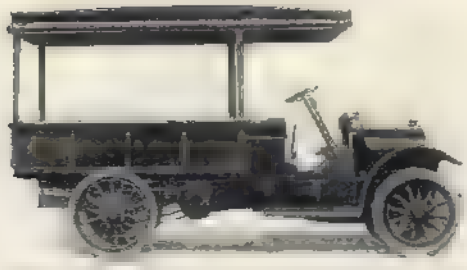
KREBS MODEL BB, PANEL BODY, $1650.

LANDSHAFT MODEL C, FLARE BOARD, $1075.

MARMON, PANEL BODY, $2800.
(Made by Nordyke & Marmon Co.)

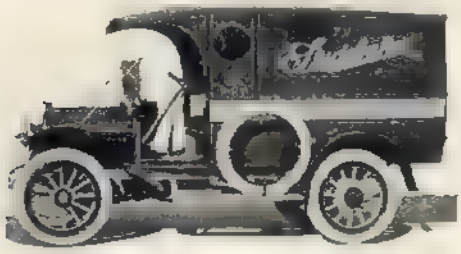
MACCARR MODEL A, SEMI-PANEL, $1650.*

PALMER-MOORE MODEL C, PANEL, $1350.

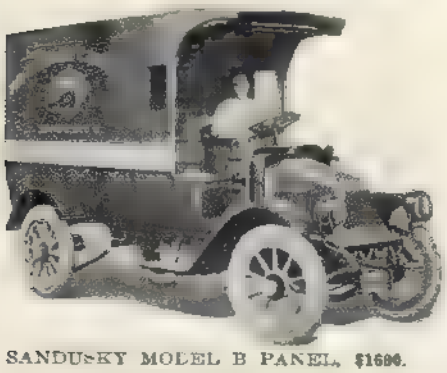


WILLYS UTILITY, COVERED FLARE BOARD, $1250.*

SIGNAL SCREEN SIDE FLARE BOARD, $1350.*

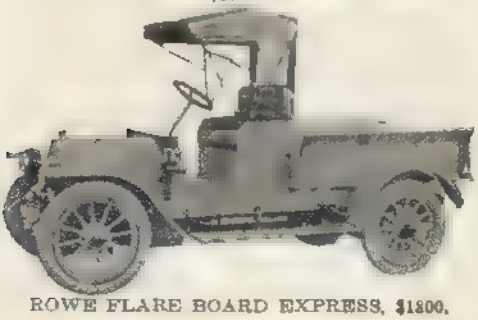


STUDEBAKER, PANEL BODY, $1200.



SANDUSKY MODEL B PANEL, $1600.

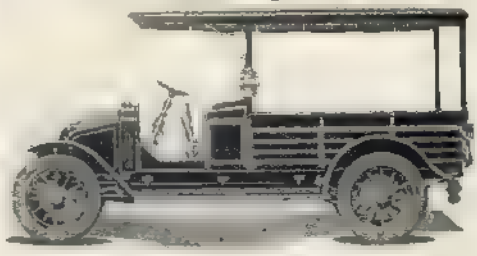
TIFFIN MODEL A PLATFORM STAKE, $1600.*



ROWE FLARE BOARD EXPRESS, $1800.

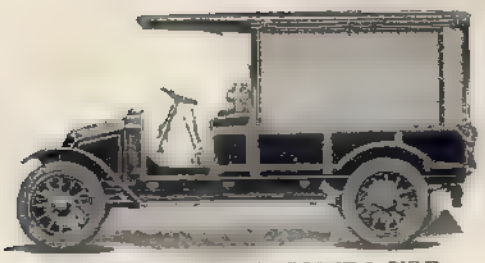
1500 Pound Gasoline

Model	Price	Dimensions of Carrying Space	Load Platform Height	Horsepower	Cylinders	Bore	Stroke	Cooling
	Reo Motor Truck Co.,							
H	750	42x72	30	9	1	4.75	6	T
	Rowe Motor Mfg. Co.,							
	1800	42x72	..	23	4	3.75	5	..
	Trabold Truck Mfg. Co.,							
	1050	42x96	38	20	4	3.5	5	T
	Veerac Motor Co.,							
A	*925	42x88	34	20	2	4	4	A
	White Co.,							
GBBE	2100	43x78	31	23	4	3.75	5.13	C
	Willet Engine & Truck Co., Inc.,							
M	....	40x88	..	23	4	3.75	5.25	C
	Willys-Overland Co.,							
Utility	1400	96x120	..	27	4	4.13	4.5	T
	Ward Motor Vehicle Co.,							
G2a	*1650	.....	..	26	4	4	4.5	G
	Studebaker Corp.,							
	1200	.....	..	30	4	3.5	5	C
	South Bend Motor Car Works,							
28	*1875	48x116	29	22	4	3.75	5	T
	Signal Motor Truck Co.,							
	*1350	46x97	32	23	4	3.75	5.25	C
	The Shop of Seibert,							
H	1350	46x84	32	22	4	3.75	4 50	T
	Sullivan Motor Car Co.,							
51	1140	46x92	34	16	2	4.5	4.5	T
	Stegeman Motor Car Co.,							
	*1600	.....	..	23	4	3.75	5 25	C
	Service Motor Car Co.,							
J	*1350	47½x96	..	23	4	3.75	5.5	C
	Sandusky Auto Parts & Motor Truck Co.							
B	1600	.....	..	..	4	....	....	..
	Stewart Motor Corp.,							
A	1650	45x84	38½	23	4	3.75	5.25	C

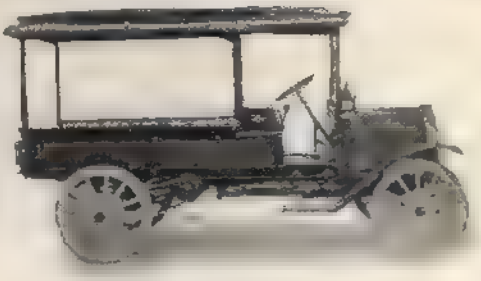


STEWART MODEL B, COVERED FLARE BOARD, $1625.

SERVICE MODEL J, FLARE BOARD, $1350.*



STEWART MODEL F. SCREEN SIDE EXPRESS, $1650.



SIEBERT MODEL H COVERED FLARE BOARD, $1250

Commercial Cars

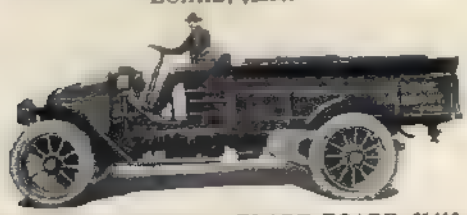
Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
			Lansing, Mich.						
H	N	½	D	C	S	36x2	36x2½	L	90
			Coatesville, Pa.						
..	..	..	..	S	..	*34x4½	*34x4½	R	116
			Johnstown, Pa.						
SB	BR	M	D	C	S	36x2½	38x3	..	105
			Anoka, Minn.						
KR	A	S	..	C	L	36x2½	36x2½	L	86
			Cleveland, O.						
SP	B	S	C	B	S	*34x4½	*34x4½	L	133
			Buffalo, N. Y.						
Z	E	½	C	B	S	*34x4½	*34x4½	L	125
			Lima, O.						
SL	SD	S	C	C	S	*34x4½	*36x3½	R	120
			New York City.						
SB	SD	M	D	B	S	*33x5	*33x5	R	124
			Detroit, Mich.						
SL	R	½	C	B	S	34x4½	34x4½	L	106
			South Bend, Ind.						
SB	BR	S	C	C	S	*34x4	*34x5	L	130
			Detroit, Mich.						
SB	E	S	C	C	S	34x3	36x3½	L	115
			Toledo, O.						
C	M	S	C	C	S	36x3	36x3½	L	120
			Rochester, N. Y.						
SL	B	½	D	C	P	36x2½	36x3	L	96
			Milwaukee, Wis.						
C	E		D	B	S	*....	*....	C	105
			Wabash, Ind.						
SB	B	S	B	F		36x3	38x3	L	115
			Sandusky, O.						
..	..	.	C	S	.	. ..	. ..	L	. .
			Buffalo, N. Y.						
MY	B	S	D	B	S	*34x4½	*34x4½	L	126

STEWART MODEL A. PANEL $1650.

WILLET MODEL M. SCREEN SIDE EXPRESS, $1850.

STEGEMAN, PANEL BODY, $1600.*

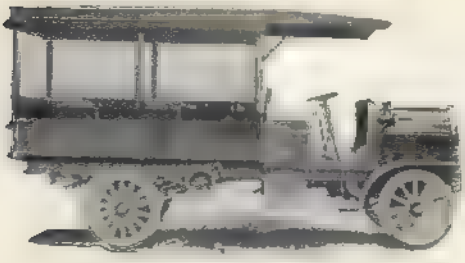
WHITE MODEL GBBE, COVERED FLARE BOARD, $2250.



SANDUSKY MODEL B FLARE BOARD, $1400.

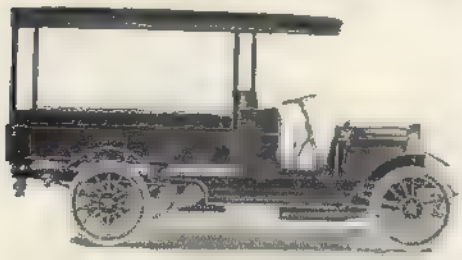
WARD MODEL G2A, COVERED FLARE BOARD, $1650.*

ADAMS MODEL A, COVERED FLARE BOARD, $2215.



AVERY MODEL C, COVERED FLARE BOARD, $1690.

AUGLAIZE MODEL H, FLARE BOARD $1000.



ATTERBURY MODEL B, COVERED FLARE BOARD, $2000.*

ARMLEDER MODEL B, SCREEN SIDE, $2200.*

BESSEMER MODEL B, COVERED FLARE BOARD, $1800.*

2000 Pound Gasoline

	Model	Price	Dimensions of Carrying Space	Load Platform Height	Horsepower	Cylinders	Bore	Stroke	Cooling
B	Atterbury Motor Car Co., *2000		48x96	40	23	4	3.75	5.25	C
B	O. Armleder Co., 2400		108x48x70	33	37	4	4.13	5.25	C
25	Available Truck Co., 1450		44x102	34	23	4	3.75	4.5	T
H	Auglaize Motor Car Co., 1000		40x96	30	22	2	5.25	4	T
G	1400		40x96	36	23	4	3.75	5	T
B	Alma Motor Truck Co., 1425		O	35	23	4	3.75	5.25	G
	Avery Co., ..		48x108	40	27	4	4.13	5.25	C
A	Adams Bros. Co., 2215		46x108	..	24	4	3.88	5	C
G	Bowling Green Motor Car Co., 1825		45x97	31	23	4	3.75	5.25	C
V3	Buckeye Mfg. Co., 1800		46x82	41	23	4	3.75	5.25	C
C	Brockway Motor Truck Co., 1550		46x86	34	36	3	4.25	5	A
H	1650		46x86	34	23	4	3.75	5.25	C
U	C. L. Barker, 2075		44x132	36	26	4	4	5	T
B	Bessemer Motor Truck Co., *1800		62x108	42	23	4	3.75	5.25	T
F	Chicago Pneumatic Tool Co., *1200		44x114	35	20	2	5	4	T
H	*1850		44x114	35	23	4	3.75	4.5	T
	Crown Commercial Car Co., ..		..	..	26	4	4	5	C

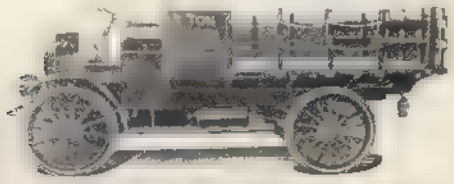
BARKER MODEL U, FLARE BOARD, $2075.

CLARK FLARE BOARD WITH STAKES, $2000.*

MODERN MODEL G, PANEL BODY, $1700.*
(Made by Bowling Green Motor Car Co.)

Commercial Cars

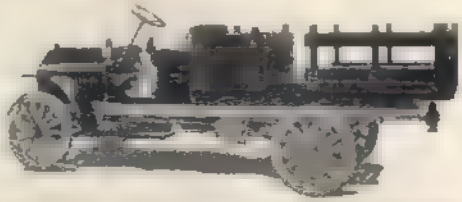
Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
			Buffalo, N. Y.						
SB	B	S	D	W	S	36x3½	36x4	L	128
			Cincinnati, O.						
SL	B	S	D	E	S	.....	.....	L	136
			Chicago, Ill.						
SL	BR	S	C	C	S	36x3	36x3½	L	120
			New Bremen, O.						
SL	R	⅛	D	C	S	36x3	36x3	R	96
SL	R	⅛	D	IC	S	36x3	36x3½	L	120
			Alma, Mich.						
SL	O	⅛	C	C	S	3	4	L	124
			Peoria, Ill.						
R	H	S	D	C	S	34x3½	34x5	L	128
			Findlay, O.						
SL	E	S	D	C	S	36x3½	36x4	L	121
			Bowling Green, O.						
SL	B	S	C	C	S	36x3½	36x3½	L	136
			Anderson, Ind.						
SL	BR	S	..	..	F	36x3	36x3½	L	120
			Cortland, N. Y.						
H	B	S	C	C	S	36x3	36x3½	L	103
H	B	S	C	C	S	36x3	36x3½	L	106
			Norwalk, Conn.						
SB	E	S	D	W	S	42x3½	42x5	L	130
			Grove City, Pa.						
R	E	½	C	C	S	34x3½	34x4	L	120
			Chicago, Ill.						
H	K	S	D	C	S	3½	3	R	110
H	K	S	D	C	S	3 1-3	3½	L	110
			N. Milwaukee, Wis.						
Z	B	½	C	W	S	34x3½	38x5	L	135



CLARK STAKE PLATFORM, $2000.*

LAMBERT MODEL V-8, FLARE BOARD, $1800.
(Made by Buckeye Mfg. Co.)

REPUBLIC MODEL B, FLARE BOARD, $1350.*
(Made by Alma Motor Truck Co.)



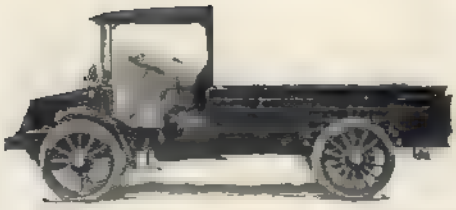
REPUBLIC MODEL B, STAKE PLATFORM, $1350.*
(Made by Alma Motor Truck Co.)

BROCKWAY MODEL B, FLARE BOARD, $1300.*

AUGLAIZE MODEL G, FLARE BOARD, $1400.

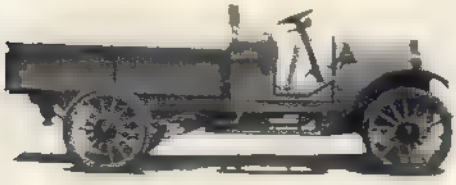
LITTLE GIANT MODEL F, PLATFORM STAKE, $1200.*
(Made by Chicago Pneumatic Tool Co.)

LITTLE GIANT MODEL H, FLARE BOARD, $1350.*
(Made by Chicago Pneumatic Tool Co.)



DAYTON MODEL U, FLARE BOARD, $1475.

DORRIS, PLATFORM STAKE, $2500.*



DART MODEL B, FLARE BOARD, $1300

B. A. GRAMM'S CHASSIS, $1750.*
(Made by Gramm-Bernstein Co.)

MACK, COVERED FLARE BOARD, $2000.*
(Made by International Motor Co.)

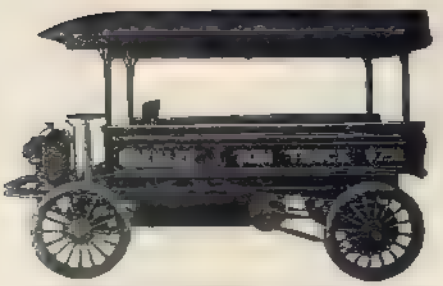
KISSEL KAR, PLATFORM STAKE, $1850.*

IDEAL MODEL I, COVERED FLARE BOARD.
$1500.*

2000 Pound Gasoline

	Model	Price	Dimensions of Carrying Space	Load Platform Height	Horsepower	Cylinders	Bore	Stroke	Cooling
	Detroit-Wyandotte Motor Co.,	*2000	56x120	38	27	4	4 13	5 25	C
B	Dart Mfg. Co.,	1300	42x85	..	26	4	4.06	4.5	C
J	Gabriel Auto Co.,	2000	....	..	27	4	4 13	5 25	C
F	S. G. Gay Co.,	....	46x96	..	23	4	3 75	4 5	W
	Gramm-Bernstein Co.,	*1750	54x114	32	23	4	3.75	5.25	C
U	Dayton Auto Truck Co.,	1475	.....	..	..	.	....	....	C
I	Ideal Auto Co.,	*1500	44x102	39	22	4	3.75	4.5	T
	International Motor Co.,	*2000	64x126	35	32	4	4.5	5.5	C
OneTon	Thos. B. Jeffery Co.,	1575	48x114	34	23	4	3.75	5.25	C
	Kissel Motor Car Co.,	1975	44x108	..	32	4	4.5	5.25	C
AA	Krebs Commercial Car Co.,	*1425	45x82	34	23	4	3 75	4 5	T
	H. J. Koehler S. G. Co.,	750	44x84	..	21	2	5.25	....	T
K-30	Kelly-Springfield Motor Truck Co.,	2225	150	32	23	4	3.75	5.25	W
G	Wm. Landshaft & Sons,	1425	46x100	36	23	4	3.75	4.5	T
B	Lord Baltimore Truck Co.,	2000	48x108	..	23	4	3.75	5 25	W
C	Lange Motor Truck Co.,	*2250	44x90	..	23	4	3.75	5.25	W
■	F. Coleman Carriage & Harness Co.,	*1950	46x102	..	23	4	3.75	5.25	C

GABRIEL MODEL J, COVERED FLARE
BOARD, $2000.*



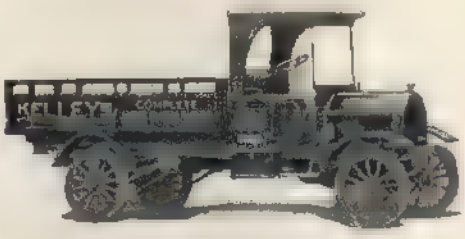
KOEHLER, COVERED FLARE BOARD EXPRESS, $750.

Commercial Cars

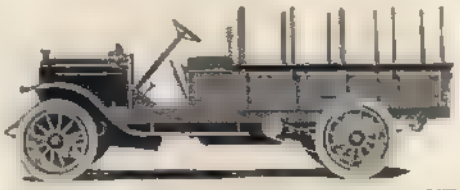
Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
			Wyandotte, Mich.						
SB	M	S	D	C	S	34x3½	34x4	L	145
			Waterloo, Ia.						
SB	E	½	C	C	S	36x2½	36x3	L	114
			Cleveland, O.						
SB	B	S	C	B	S	*.....	*D	L	144
			Ottawa, Ill.						
SB	E	..	C	C	S	36x3	36x3	L	114
			Lima, O.						
SL	B	S	C	C	S	34x3½	36x4	L	130
			Dayton, O.						
SB	B	S	D	C	S	.....	.....	L	..
			Fort Wayne, Ind.						
SL	E	S	C	C	S	36x3	36x3½	R	115
			New York City.						
H	B	..	D	C	S	36x4	36x3½D	L	126
			Kenosha, Wis.						
R	B	S	D	C	S	34x3½	34x4	R	130
			Hartford, Wis.						
SB	B	S	C	S	S	*37x5	*37x5	..	140
			Clyde, O.						
	B	S	C	C	S	34x3	34x3	L	100
			New York City.						
SL	B	S	C	C	L	36x2½	36x3½	L	90
			Springfield, O.						
B	E	S	C	C	S	38x6½	36x4	L	120
			Chicago, Ill.						
R	R	S	C	C	S	34x3	34x3	R	124
			Baltimore, Md.						
SL	E	S	D	IG	S	34x3½	36x4	L	128
			Pittsburgh, Pa.						
SB	B	S	D	C	S	36x3½	36x4	L	125
			Ilion, N. Y.						
SL	R	S	C	C	S	36x3½	36x4	R	107

LORD BALTIMORE MODEL B, COVERED EXPRESS, $2000.

KELLY-SPRINGFIELD MODEL K-30, CHASSIS, $2000.*



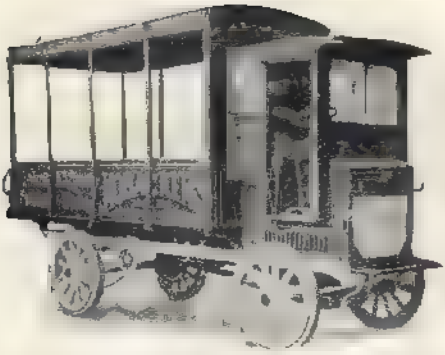
INDIANA MODEL B-30, FLARE BOARD, $1800.*
(Made by Harwood-Barley Mfg. Co.)



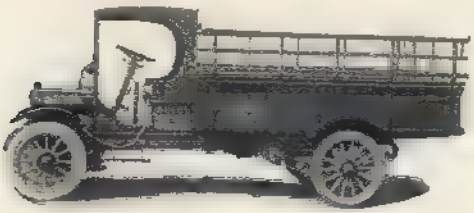
JEFFERY FLARE BOARD WITH STAKES. $1575.

COLEMAN MODEL B, COVERED EXPRESS, $1950.*

LANGE MODEL C, FLARE BOARD, $2250.*



LAUTH-JUERGENS MODEL K, COVERED STAKE, $2225

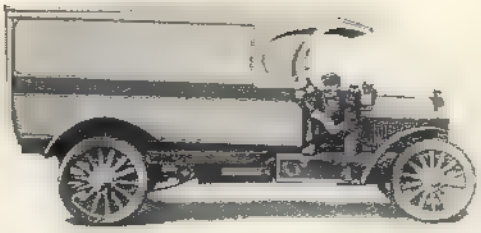


MORA MODEL 25 FLARE BOARD, $1500.*

MORA MODEL 24, FLARE BOARD, $1515

MACCARR MODEL B, CHASSIS, $1900.*

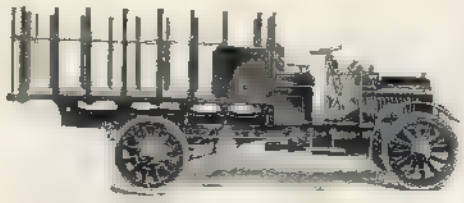
PLYMOUTH MODEL D-3, COVERED FLARE BOARD, $1850.



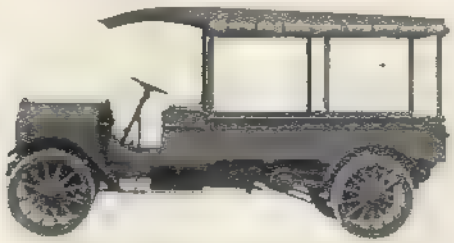
TRABOLD, PANEL BODY, $1475.*

2000 Pound Gasoline

	Model	Price	Dimensions of Carrying Space	Load Platform Height	Horsepower	Cylinders	Bore	Stroke	Cooling
	Lauth-Juergens Motor Car Co.,								
K		2225	46x132 ..	23	4		3.75	5.25	W
	Mora Power Wagon Co.,								
24		1515	45x90	36	18	4	3.38	5	T
25		*1500	45x90	36	18	4	3.38	5	T
	Maccarr Co.,								
B		2100	46x102	24	23	4	3.75	5.25	C
	National Motor Truck Co.,								
15		*1925	48x96	31	20	4	3.5	5	T
	Nelson & Le Moon,								
DI		*1800	....		23	4	3.75	5.25	C
	D. F. Poyer Co.,								
B-3		1500	46x102	37	26	4	4	5	C
	Palmer-Meyer Motor Car Co.,								
		*1690	32x74	32	23	4	3.75	5	C
	Rowe Motor Mfg. Co.,								
		2175	44x96 ..	29	4		4 25	5	
	Trabold Truck Mfg. Co.,								
		1575	44x114	38	23	4	3.75	5.5	G
	Tiffin Wagon Co.,								
G		2126	66x120	43	23	4	3.75	5.25	C
	Transit Motor Truck Co.,								
E		*2000	128 ..	23	4		3.75	5 25	C
	Sanford Motor Truck Co.,								
K		1750	.....	36	26	4	4	4 5	C
	Selden Motor Vehicle Co.,								
J		*2000	103 ..	23	4		3 75	5 25	C
J-L		*2000	123 ..	23	4		3.75	5 25	C



SELDEN MODEL J-L, PLATFORM STAKE, $2000.*



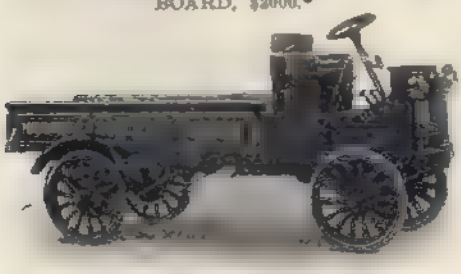
TIFFIN MODEL G, COVERED FLARE BOARD, $2000.*

MONITOR MODEL E, CHASSIS, $1750.*

Commercial Cars

Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
				Fremont, O.					
SB	E	S	D	C	S	.....	.....	R	110
				Cleveland, O.					
SB	..	½	D	C	L	.....	.....	L	115
SB	..	½	D	C	L	.....	.....	L	135
				Allentown, Pa.					
SB	B	S	D	C	S	36x4	36x5	L	126
				Bay City, Mich.					
Z	U	S	C	C	S	36x3½	36x3½	L	104
				Chicago, Ill.					
R	..	S	D	C	S	.....	.....	R	O
				Menominee, Mich.					
SB	B	½	D	B	S	.....	.....	R	...
				St. Louis, Mo.					
SL	B	½	D	C	S	34x3	34x3½	R	118
				Coatesville, Pa.					
..	..	..	..	O	..	34x3½	34x4	R	120
				Johnstown, Pa.					
SB	BR	M	D	C	S	36x3	38x3½	..	128
				Tiffin, O.					
SL	B	S	C	C	S	.....	.....	L	128
				Louisville, Ky.					
..	M	..	D	C	B	34x3½	34x4	R	O
				Syracuse, N. Y.					
SL	R	S	D	C	S	.....	.....	R	106
				Rochester, N. Y.					
SB	B	S	D	C	S	36x3½	36x4	L	125
SB	B	S	D	C	S	36x3½	36x4	L	14[illegible]

SELDEN MODEL J, COVERED FLARE BOARD, $2000.*



SANFORD MODEL K, FLARE BOARD, $1660.*

NATCO TYPE 15, COVERED FLARE BOARD $1925.*
(Made by National Motor Truck Co.)

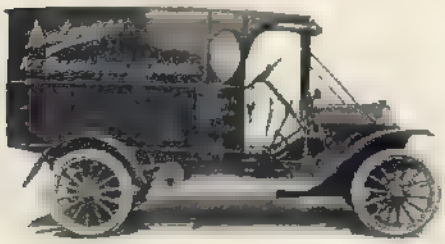
ROWE COVERED FLARE BOARD, $2175.

MENOMINEE MODEL B-3, FLARE BOARD, $1500
(Made by D. F. Poyer Co.)

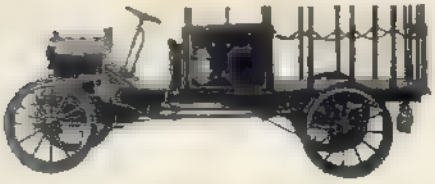
PALMER, COVERED FLARE BOARD, $1600.*
(Made by Palmer-Meyer Motor Car Co.)

NELSON & LEMOON MODEL D-1, PANEL, $1800.*

SERVICE MODEL K, COVERED FLARE BOARD, $1475.*



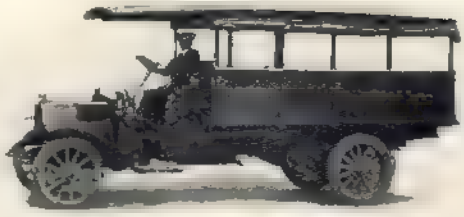
SANDOW MODEL 1, PANEL, $1800.*



SULLIVAN MODEL 51, PLATFORM STAKE, $1150.

TRANSIT MODEL E, COVERED FLARE BOARD, $2000.*

WITT-WILL MODEL E-13, PANEL BODY.



STEGEMAN, COVERED FLARE BOARD, $2250.*

2000 Pound Gasoline

	Model	Price	Dimensions of Carrying Space	Load Platform, Height	Horsepower	Cylinders	Bore	Stroke	Cooling
	Sandow Truck Co.,	1950	48x84	36	23	4	3.75	5.25	C
	Stegeman Motor Car Co.,	*2250	.....	..	23	4	3.75	5.25	C
K	Service Motor Car Co.,	*1475	47½x96	..	22	4	3.75	5.5	C
X	Velie Engineering Co.,	*2000	42x112	38	33	4	4.63	5.25	C
B	Veerac Motor Co.,	1125	42x88	34	20	3	4	4	A
A	Wichita Falls Motor Co.,	*1650	60x96	44	17	4	3.25	5	T
	Stewart Iron Works Co.,	1150	46x91	34	20	2	5	5.5	C
B	Star-Tribune Motor Sales Co.,	1500	54	27	23	4	3.75	5.25	C
B	Star Motor Car Co.,	1600	95	41	23	4	3.75	5.25	C
E	Witt-Will Co.,	....	.....	..	23	4	3.75	5.25	C
	Shop of Siebert,	1350	.....	..	23	4	3.75	4.5	T
	Clark Delivery Car Co.,	OneTon 2150	.....	..	33	4	3.75	5	..
	Harwood-Barley Mfg. Co.,	*1800	48x114	..	23	4	3.75	5.25	C

2500 Pound Gasoline

H	Chase Motor Truck Co.,	1250	46x81	34	34	2	4.13	4	A
F	Corbitt Automobile Co.,	*2000	52x104	31	23	4	3.75	5.25	C

WITT-WILL MODEL E-13, FLARE BOARD

VELIE MODEL X, FLARE BOARD, $2000.*

WILCOX MODEL L, COVERED FLARE BOARD.

Commercial Cars

Carburetor	Ignition	Spark Plug	Clutch	Drive	Change Speed	Size Front Tires	Size Rear Tires	Control	Wheel Base
			Chicago, Ill.						
R	B	S	C	C	S	36x3	36x4	R	125
			Milwaukee, Wis.						
C	E	..	D	C	S	.....	.....	C	130
			Wabash, Ind.						
SB	B	S	..	B	F	34x3	34x3½	L	115
			Moline, Ill.						
SB	B	S	D	B	S	*36x5	*36x5	L	129
			Anoka, Minn.						
KR	R	S	..	C	L	36x2½	36x3	L	84
			Wichita Falls, Tex.						
O	O	S	C	C	S	34x3	34x4	R	110
			Cincinnati, O.						
SB	KO	½	D	C	P	36x3	36x3	L	96
			Detroit, Mich.						
SB	B	S	D	C	S	36x3½	36x4	L	120
			Ann Arbor, Mich.						
O	O	..	D	C	S	34x3	34x3½	L	120
			Washington, D. C.						
SL	E	..	C	C	S	36x3½	40x4	R	...
			Toledo, O.						
H	M	..	C	C	S	36x2½	36x3	..	115
			Chicago, Ill.						
.	E	..	C	S	S	36x3	36x3½	..	100
			Marion, Ind						
.	B	..	D	C	S	36x3½	36x4	..	135

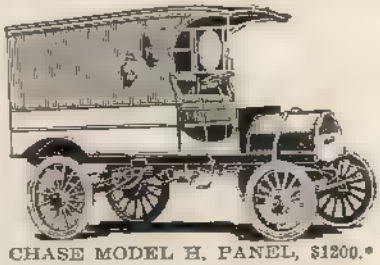
Commercial Cars

			Syracuse, N. Y.						
H	B	½	B	C	L	36x3	36x3	R	106
			Henderson, N. C.						
SB	B	S	D	C	S	36x3½	40x4	L	130

WHITE STAR MODEL 1, COVERED FLARE BOARD, $1900.
(Made by White Star Motor and Eng. Co.)

VEERAC MODEL B, PLATFORM STAKE, $1125.

WICHITA MODEL A, BOTTLE BODY, $1650.*



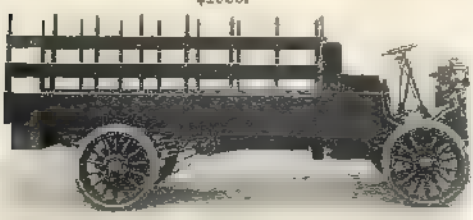
CHASE MODEL H, PANEL, $1200.*

CORBITT MODEL F, FLARE BOARD, $2100.

WICHITA MODEL A, PLATFORM STAKE, $1800.

ADAMS MODEL D, SLAT SIDE EXPRESS, $2435.

MORELAND COVERED FLARE BOARD, $1980.*



DANIELSON MODEL A, PLATFORM STAKE, $1800.*

AUTOCAR MODEL XXI-F, COVERED FLARE BOARD, $1850.*

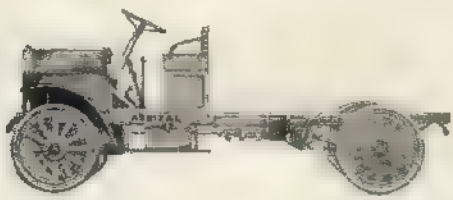
AUTOCAR MODEL XXI-F, PANEL BODY, $1850.*

2500 Pound Gasoline

	Model	Price	Dimensions of Carrying Space	Load Platform Height	Horsepower	Cylinders	Bore	Stroke	Cooling
	Moreland Motor Truck Co.,								
	*1980		120	32	27	4	4.13	5.25	C

3000 Pound Gasoline

	Atterbury Motor Car Co.,								
R	*2300	54x108	48	27	4	4.13	5.25	C
	Admiral Motor Car Co.,								
S	1525	48x108	34	26	4	3.5	5	T
	Autocar Company,								
XXI-F	2075	108	31	18	2	4.75	4.5	C
	O. Armleder Co.,								
H	2350	120x50x70	33	32	4	4.5	5	C
	Adams Bros. Co.,								
D	2435	48x120	..	24	4	3 88	5	C
	Bowling Green Motor Car Co.,								
H	2075	45x97	31	27	4	4.13	5.25	C
	Buckeye Mfg. Co.,								
V4	2000	46x94	41	32	4	4.5	5	C
	Brockway Motor Truck Co.,								
D	1950	48x100	34	40	3	4.5	5	A
I	2050	48x100	34	27	4	4.13	5.25	C
	Bessemer Motor Truck Co.,								
A	*2100	62x120	42	23	4	3.75	5.25	T
	Blair Mfg. Co.,								
C	3000	62x126	30	29	4	4.25	5.25	G
	Chase Motor Truck Co.,								
L	....	46x108	32	40	3	4.5	5	A
	Continental Truck Mfg. Co,								
AE	1600	48x144	36	20	4	3.5	5.5	T
	F. A. Casey Co.,								
	*1650	48x96	30	27	4	4.13	5.25	C
	Danielson Engine Works,								
A	1950	48x120	36	29	4	4.25	4.25	C
B	1900	48x196	36	29	4	4.25	4.25	C
	Diamond T. Motor Car Co.,								
J	*2250	114x144	..	27	4	4 13	5.25	C
	Detroit-Wyandotte Motor Co.,								
	*2250	60x132	40	27	4	4.13	5.25	C
	Federal Motor Truck Co.,								
G	*1800	.....	..	27	4	4.13	4.25	C
	Four Wheel Drive Auto Co.,								
G	3800	60x132	41	29	4	4 25	5	C
	Gabriel Auto Co.,								
L	*2500	.. ..	..	27	4	4 13	5.25	C
	S. G. Gay Co.,								
G	....	48x108	..	26	4	4	4.5	W
	Harder Auto Truck Co.,								
C	*2250	60x120	..	29	4	4.25	4.75	G
	Harvey Motor Truck Works,								
F	*1875	114	29	28	4	3.75	5.5	W
	Ideal Auto Co.,								
H2	*2000	54x120	40	27	4	4.13	5 25	C



ADMIRAL MODEL 3, CHASSIS, $1475.

POCKET KNIVES

EMPIRE

Forged from Best Pocket Cutlery Steel known Thomas Firth & Sons Sheffield, England, Carefully Hardened and Perfectly Tempered by the Most Skilled and Experienced Cutlers. Celebrated for Perfect Cutting Edges, ease in Opening of Blades. Superior Finish and Symmetrical Appearance Every Blade Sharpened and Honed Ready for Use, Free from Flaws and Imperfections. FULLY GUARANTEED.

TWO BLADE PENS

Length 2⅞ inches, German Silver Bolsters; One Large Spear and One Small Pen Blade, Glazed; Brass Lining; Weight per Dozen 9 ozs.

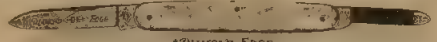
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S180ST Patent Stag Handle	$8 80	No. 2E180ST—Patent Stag Handle	$8 80
No. 2S180W — White Bone Handle	6 80	No. 2E180W —White Bone Handle	6 80
No. 2S180P — Pearl Handle	16 50	No. 2E180P —Pearl Handle	16 50

Length 3 inches, Unchased, One Large Spear and One Small Pen Blade Half Crocus Polished and Etched German Silver Lining, German Silver Shield, Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S31P Pearl Handle	$23 75	No. 2E31P Pearl Handle	$23 75

Length 3 inches, German Silver Bolsters, One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched Brass Lining German Silver Shield; Weight per Dozen 10 ozs.

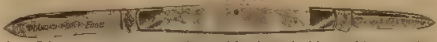
*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S258E —Ebony Handle	$9 80	No 2E258E Ebony Handle	$9 25
No. 2S258ST—Patent Stag Handle	8 80	No 2E258ST Patent Stag Handle	8 80
No. 2S258T Tortoise Shell Handle	12 10	No 2E258T Tortoise Shell Handle	12 10
No. 2S258P —Pearl Handle	17 60	No 2E258P Pearl Handle	17 60



*DIAMOND EDGE

Length 3 inches, German Silver Tipped One Large Spear and One File Blade, Half Crocus Polished and Etched, Brass Lining; Weight per Dozen 11 ozs.

	Per Dozen
No. 2S289P—Pearl Handle	$20 00



Length 3 inches German Silver Bolsters One Large Spear and One Small Pen Blade Half Crocus Polished and Etched, Brass Lining, Weight per Dozen 12 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S275P—Pearl Handle	$19 80	No 2E275P—Pearl Handle	$19 80

Length 3 inches; German Silver Bolsters; One Large Spear and One Small Pen Blade Half Crocus Polished and Etched, Brass Lining, Weight per Dozen 13 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S256GST—Genuine Stag Handle	$14 30	No. 2E256GST Genuine Stag Handle	$14 30
No. 2S256P —Pearl Handle	19 25	No. 2E256P —Pearl Handle	19 25

Length 3 inches, German Silver and One Large Spear and One Small Pen Blade, Half Crocus Polished and Etched, Brass Lining, German Silver Shield; Weight per Dozen 10 ozs.

*DIAMOND EDGE	Per Dozen	*EMPIRE	Per Dozen
No. 2S81E —Ebony Handle	$8 80	No. 2E81E Ebony Handle	$8 80
No. 2S81ST Patent Stag Handle	6 80	No. 2E81ST Patent Stag Handle	6 80
No. 2S81P —Pearl Handle	16 50	No. 2E81P Pearl Handle	16 50

Half Dozen in a Box

Exclusive Western and Southern Distributers for the Product of the Empire Knife Co., Winsted, Conn.

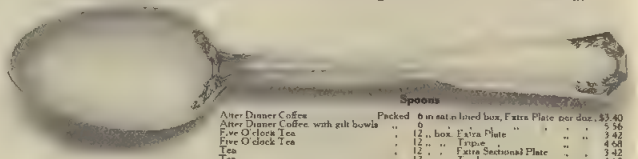
"DIAMOND EDGE IS A QUALITY PLEDGE"

1835 R. WALLACE

Silver plate that *resists* wear

THE LAUREL

The "Laurel" is the latest addition to the line of *1835 R. Wallace* flatware. The motif of the design is the historic plant which has for centuries furnished inspiration to designers and artists in other branches of craftsmanship. The treatment gives an impression of graceful elegance, simplicity and daintiness seldom found outside of sterling. The finish is a lustrous Butler.



Spoons

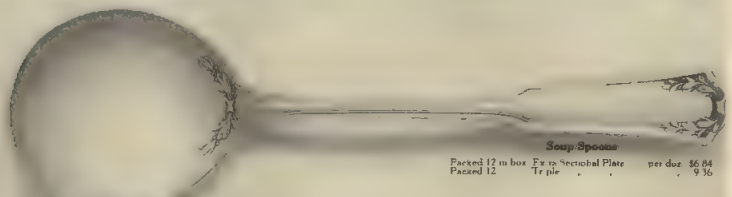
After Dinner Coffee	Packed	6 in satin lined box,	Extra Plate	per doz. $3 40
After Dinner Coffee with gilt bowls	"	6 " " "	"	5 36
Five O'clock Tea	"	12 " box	Extra Plate	" " 3 42
Five O'clock Tea	"	12 " "	Triple "	" " 4 68
Tea	"	12 " "	Extra Sectional Plate	" 3 42
Tea	"	12 " "	Triple "	" 4 68
Dessert	"	6 " "	Extra "	" " 6 12
Dessert	"	12 " "	Triple "	" " 7 92
Table	"	12 " "	Extra "	" " 6 84
Table	"	12 " "	Triple "	" " 9 36

Flat Handle Forks

Dessert	Packed	12 in box,	Extra Sectional Plate	per doz. $6 12
Dessert	"	12 " "	Triple "	" " 7 92
Medium	"	12 " "	Extra "	" " 6 84
Medium	"	12 " "	Triple "	" " 9 36

Hollow Handle Knives

Medium, 12 dwt	Packed	6 in flannel roll,	per doz. $14 04
Dessert, 12 "	"	6 " " "	" " 12 96



Soup Spoons

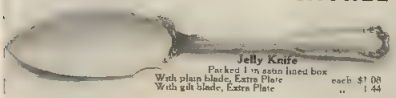
Packed 12 in box	Extra Sectional Plate	per doz	$6 84
Packed 12	Triple "	"	9 36

All 1835 R. WALLACE goods are Sectional Plated in Tea Spoons, Dessert Spoons, Soup Spoons, Table Spoons, Medium Forks and Dessert Forks, on parts most exposed to wear, which increases the wear-resistance threefold.

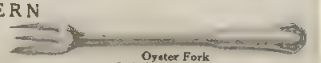
Illustrations Full Size

Silver plate that *resists* wear

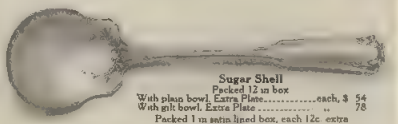
LAUREL PATTERN



Jelly Knife
Packed 1 in satin lined box
With plain blade, Extra Plate ..... each $1 08
With gilt blade, Extra Plate ..... " 1 44

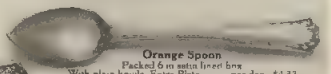


Oyster Fork
Packed 6 in satin lined box
With plain tines, Extra Plate ..... per doz $4 54
With gilt tines, Extra Plate ..... " 7 42

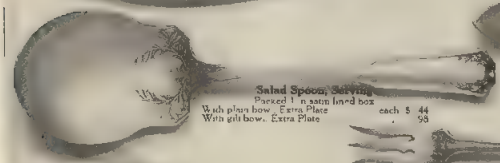


Sugar Shell
Packed 12 in box
With plain bowl, Extra Plate ..... each, $ 54
With gilt bowl, Extra Plate ..... " 78
Packed 1 in satin lined box, each 12c extra

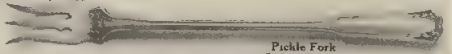
Fish Knife, Serving
Packed 1 in satin lined box
With plain blade, Extra Plate ..... each, $2 52
With gilt blade, Extra Plate ..... " 3 24



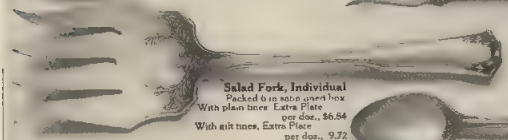
Orange Spoon
Packed 6 in satin lined box
With plain bowls, Extra Plate ..... per doz , $4 32
With gilt bowls, Extra Plate ..... " 7 20



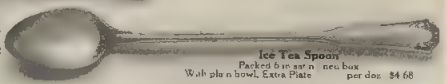
Salad Spoon, Serving
Packed 1 in satin lined box
With plain bowl, Extra Plate ..... each $ 44
With gilt bowl, Extra Plate ..... " 58



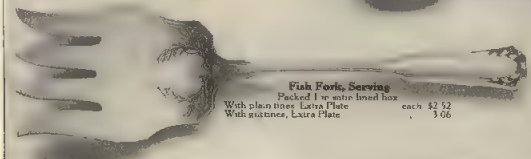
Pickle Fork
Packed 12 in box
With plain tines, Extra Plate ..... each, $ 72
With gilt tines, Extra Plate ..... " 96
Packed 1 in satin lined box each 12c extra



Salad Fork, Individual
Packed 6 in satin lined box
With plain tines Extra Plate
per doz., $6.84
With gilt tines, Extra Plate
per doz., 9.72

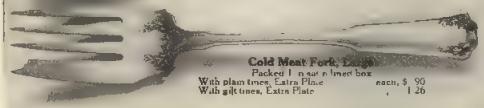


Ice Tea Spoon
Packed 6 in satin lined box
With plain bowl, Extra Plate ..... per doz $4 68



Fish Fork, Serving
Packed 1 in satin lined box
With plain tines Extra Plate ..... each $2 52
With gilt tines, Extra Plate ..... " 3 06

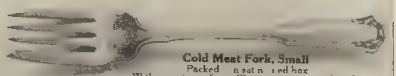
Salt Spoon
Packed 12 in box
With plain bowls, Extra Plate, ... per doz , $3 04
With gilt bowls Extra Plate ..... " " 4 48



Cold Meat Fork, Large
Packed 1 in satin lined box
With plain tines, Extra Plate ..... each, $ 90
With gilt tines, Extra Plate ..... " 1 26

Sugar Tongs
Packed 1 in satin lined box
Extra Plate ..... each, $1 08

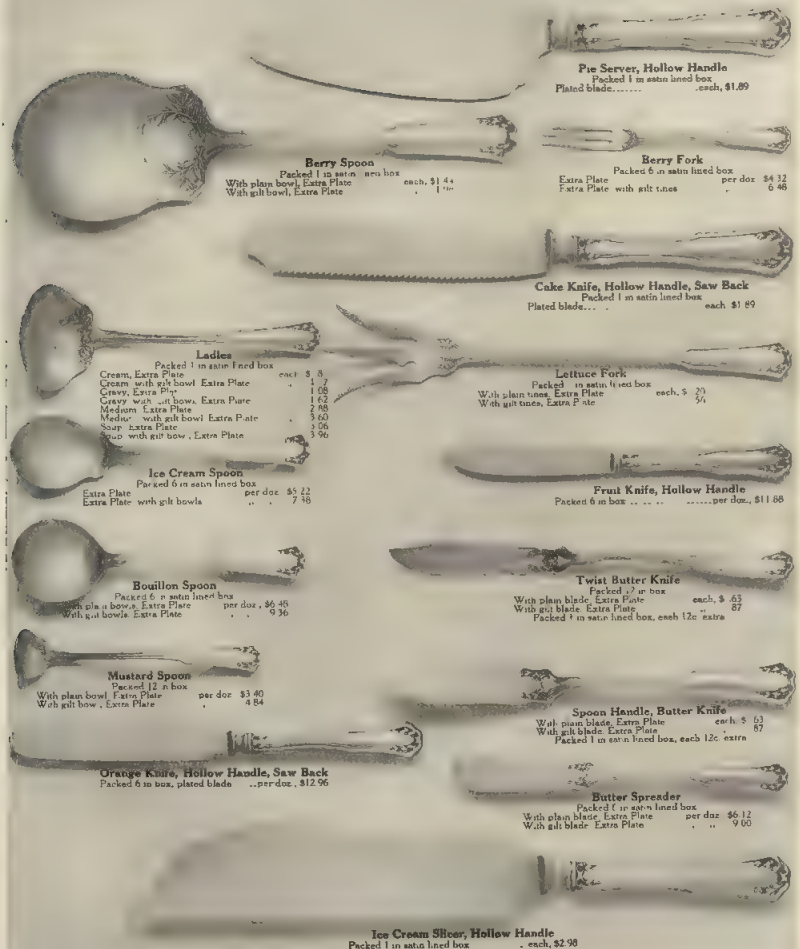
Salad Fork, Serving
Packed 1 in satin lined box
With plain tines, Extra Plate ..... each, $2 52
With gilt tines Extra Plate ..... " 3 06



Cold Meat Fork, Small
Packed in satin lined box
With plain tines Extra Plate ..... each $ 75
With gilt tines, Extra Plate ..... " 99

Illustrations One-Half Scale

1835 R. WALLACE LAUREL PATTERN **Silver plate that *resists* wear**



Pie Server, Hollow Handle
Packed 1 in satin lined box
Plated blade..... each, $1.89

Berry Spoon
Packed 1 in satin lined box
With plain bowl, Extra Plate each, $1 44
With gilt bowl, Extra Plate " 1 [illegible]

Berry Fork
Packed 6 in satin lined box
Extra Plate per doz $4 32
Extra Plate with gilt tines " 6 48

Cake Knife, Hollow Handle, Saw Back
Packed 1 in satin lined box
Plated blade... . each $1 89

Ladles
Packed 1 in satin lined box
Cream, Extra Plate each $ 8
Cream with gilt bowl Extra Plate " 1 7
Gravy, Extra Plate " 1 08
Gravy with gilt bowl, Extra Plate " 1 62
Medium Extra Plate " 2 88
Medium with gilt bowl Extra Plate " 3 60
Soup Extra Plate " 2 06
Soup with gilt bowl, Extra Plate " 3 96

Lettuce Fork
Packed in satin lined box
With plain tines, Extra Plate each, $ 20
With gilt tines, Extra Plate " 24

Ice Cream Spoon
Packed 6 in satin lined box
Extra Plate per doz $5 22
Extra Plate with gilt bowls " 7 38

Fruit Knife, Hollow Handle
Packed 6 in box . . . . . per doz., $11 88

Bouillon Spoon
Packed 6 in satin lined box
With plain bowls, Extra Plate per doz., $6 48
With gilt bowls Extra Plate " " 9 36

Twist Butter Knife
Packed 12 in box
With plain blade, Extra Plate each, $ 63
With gilt blade, Extra Plate " " 87
Packed 1 in satin lined box, each 12c extra

Mustard Spoon
Packed 12 in box
With plain bowl, Extra Plate per doz $3 40
With gilt bowl, Extra Plate " 4 84

Spoon Handle, Butter Knife
With plain blade, Extra Plate each, $ 63
With gilt blade, Extra Plate " " 87
Packed 1 in satin lined box, each 12c extra

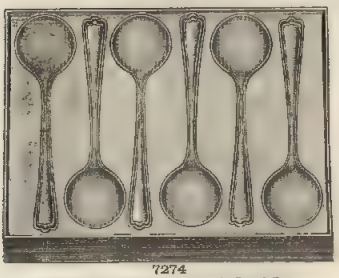
Orange Knife, Hollow Handle, Saw Back
Packed 6 in box, plated blade ..per doz., $12 96

Butter Spreader
Packed 1 in satin lined box
With plain blade, Extra Plate per doz $6 12
With gilt blade, Extra Plate " " 9 00

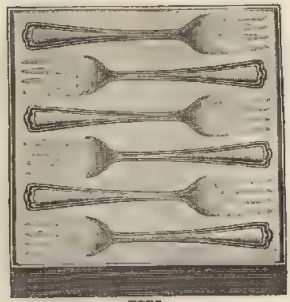
Ice Cream Slicer, Hollow Handle
Packed 1 in satin lined box . each, $2 98

Illustrations One-Half Scale

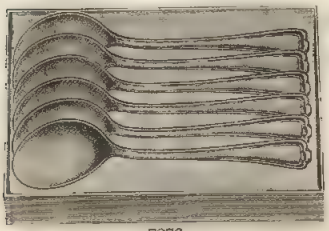
CROMWELL PATTERN



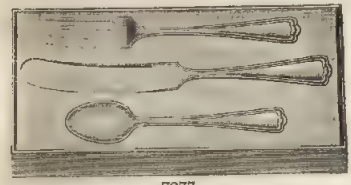
7274
Cromwell, Six Bouillon Spoons, in Lined Box,
$6.00 per Set



7275
Cromwell, Six Individual Salad Forks, in Lined Box.
$6.00 per Set

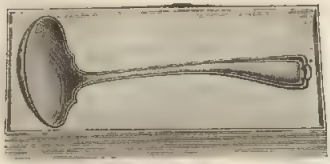


7276
Cromwell, Six Soup Spoons, in Lined Box,
$6.50 per Set



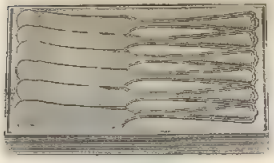
7277
Cromwell, Child's Set, 3 Pieces, in Lined Box
$2.85 per Set

7278
Cromwell, Butter Knife and Sugar Shell, in Lined Box,
$2.85 per Set

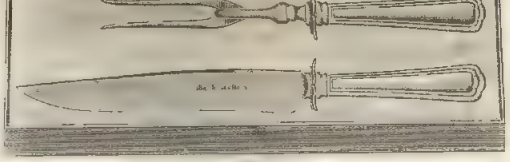


7279	Cromwell, Cream Ladle, Fancy	**$1.60**
7280	Cromwell Gravy Ladle, Fancy	**2.15**
7281	Cromwell Oyster Ladle, Fancy	**4.55**

In Lined Box.



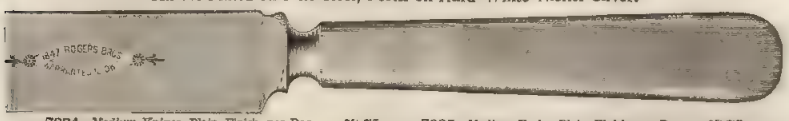
7282
Cromwell, Six Bon Especiales, in Lined Box,
$6.00 per Set



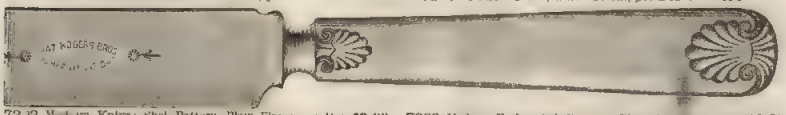
7283
Cromwell Carving Set, 2 Pieces, Nickel Silver, Silver Soldered Hollow Handles, Steel Blades, in Lined Box, **$10.00** per Set

1847 ROGERS BROS. XS TRIPLE

Knives Plated on Fine Steel, Forks on Hard White Nickel Silver.

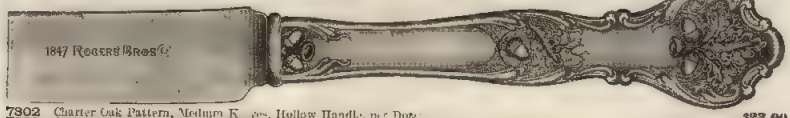


7284	Medium Knives, Plain Finish, per Doz..	$8.75	7285	Medium Forks, Plain Finish, per Doz .	$8.75
7286	Medium Knives, Satin Finish, per Doz .	8.75	7287	Medium Forks, Satin Finish, per Doz .	8.75
7288	Dessert Knives, Plain Finish, per Doz	8.50	7289	Dessert Forks, Plain Finish, per Doz .	8.50
7290	Dessert Knives, Satin Finish, per Doz.....	8.50	7291	Dessert Forks, Satin Finish, per Doz .	8.50

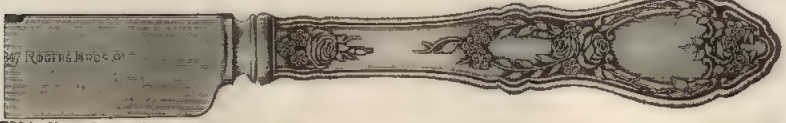


7292	Medium Knives, Shell Pattern, Plain Finish, per Doz	$9.00	7293	Medium Forks, Shell Pattern, Plain Finish, per Doz	$9.00
7294	Medium Knives, Shell Pattern, Satin Finish, per Doz	9.00	7295	Medium Forks, Shell Pattern, Satin Finish, per Doz.	9.00
7296	Dessert Knives, Shell Pattern, Plain Finish, per Doz	8.75	7297	Dessert Forks, Shell Pattern, Plain Finish, per Doz.	8.75
7298	Dessert Knives, Shell Pattern, Satin Finish, per Doz .	8.75	7299	Dessert Forks, Shell Pattern, Satin Finish, per Doz..	8.75

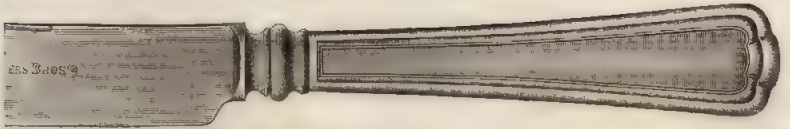
7300	Vintage Pattern, Medium Knives, Hollow Handle, per Dozen.	$23.00
7301	Vintage Pattern, Medium Forks, Hollow Handle, per Dozen	20.50



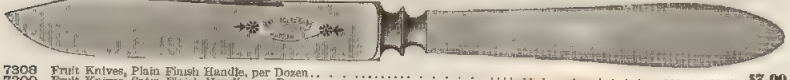
7302	Charter Oak Pattern, Medium Knives, Hollow Handle, per Doz	$23.00
7303	Charter Oak Pattern, Medium Forks, Hollow Handle, per Dozen	20.50



7304	Sharon Pattern, Medium Knives, Hollow Handle, per Dozen	$23.00
7305	Sharon Pattern, Medium Forks, Hollow Handle, per Dozen	20.50



7306	Cromwell Pattern, Medium Knives, Hollow Handle, per Dozen	$23.00
7307	Cromwell Pattern, Medium Forks, Hollow Handle, per Dozen	20.50



7308	Fruit Knives, Plain Finish Handle, per Dozen..	$7.00
7309	Fruit Knives, Satin Finish Handle, per Dozen ...	7.00

SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

"Silver Plate that Wears"

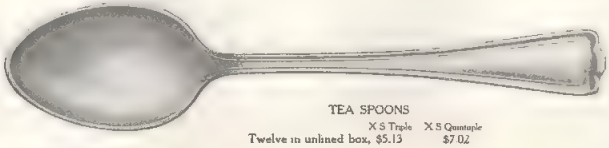
PRICES PER DOZEN

CROMWELL PATTERN

Bright

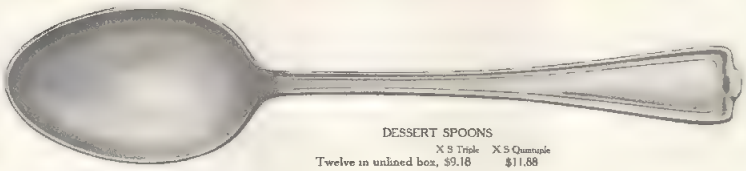
ILLUSTRATIONS ACTUAL SIZE

From the standpoint of mechanical construction this design is especially noteworthy, the grading of the metal having been given most careful attention so that the strength and weight of each piece are in the right place.



TEA SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$5.13	$7.02



DESSERT SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$9.18	$11.88

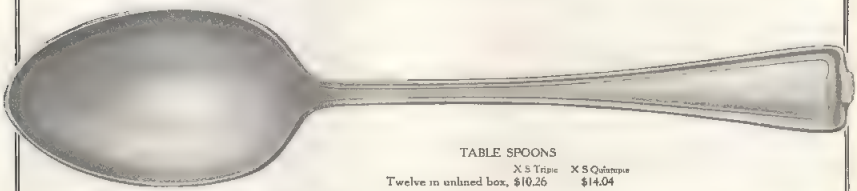


TABLE SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$10.26	$14.04

FLAT HANDLE FORKS

	XS Triple	XS Quintuple
Dessert Forks, twelve in unlined box,	$9.18	$11.88
Medium Forks, twelve in unlined box,	$10.26	$14.04

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll, per doz.,	$17.28
Dessert Knives, six in flannel roll, " "	16.20
Medium Forks, six in flannel roll, per doz.,	$17.28
Dessert Forks, six in flannel roll, " "	16.20

6-6-12

MM

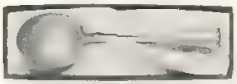
SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

CROMWELL PATTERN

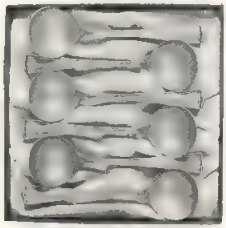
Illustrations One-third Scale



No. 608/79 Sugar Shell, each $0.95
With gilt bowl, $1.30

No. 604/79 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl, $2.34

No. 609/79 Butter Knife, twist handle, each, $1.08
With gilt blade, $1.43



No. 720/79 Six Bouillon Spoons
Per set, $4.86

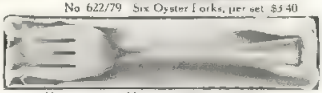
No. 716/79 Child's Set, 3 pieces
Per set, $2.16

No. 593/79 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife
Per set, $2.84

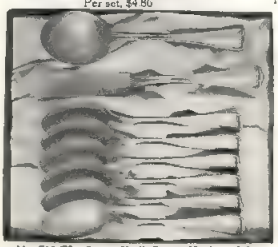
No. 703/79 Child's Set
Same pieces as No. 593 and Napkin Ring, per set, $3.51

No. 721/79
School Set, Dessert Knife, hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set, $4.41

No. 622/79 Six Oyster Forks, per set $3.40

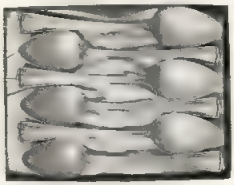


No. 662/79 Cold Meat Fork, each, $1.35
With gilt tines, $1.89



No. 710/79 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86

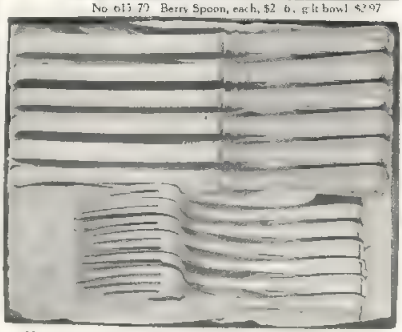
No. 613/79 Berry Spoon, each, $2.16, gilt bowl $2.97



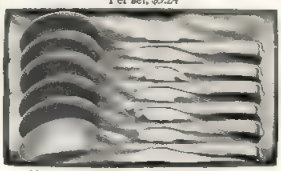
No. 647/79 Six Orange or Grape Fruit Spoons
Per set, $3.24

LADLES

No.	Each
611/79 Gravy,	$1.62
Gilt bowl,	$2.43
610/79 Cream,	$1.22
Gilt bowl,	$1.76
612/79 Oyster,	$3.51
Gilt bowl,	$4.41
613/79 Med'm,	$4.32
Gilt bowl,	$5.40



No. 158½ Cromwell (illustrated), per set, $13.77. Six Hollow Handle Medium Knives and Flat Handle Medium Forks
No. 159½ Cromwell. Dessert, per set, $12.69
No. 160½ Cromwell, per set, $17.28. Six Hollow Handle Medium Knives and Forks
No. 161½ Cromwell, per set, $16.74. Six Hollow Handle Medium Knives and Dessert Forks
No. 162½ Cromwell, per set, $16.20. Six Hollow Handle Dessert Knives and Forks



No. 713/79 Six Soup Spoons, per set, $5.67

SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

"Silver Plate that Wears"

PRICES PER DOZEN

PRISCILLA PATTERN

ILLUSTRATIONS ACTUAL SIZE

Bright

This pattern was designed to meet the demand for one possessing simplicity greater than is to be found in many of the modern patterns, but not quite so marked as in the old-time styles

TEA SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$5.13	$7.02

DESSERT SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$9.18	$11.88

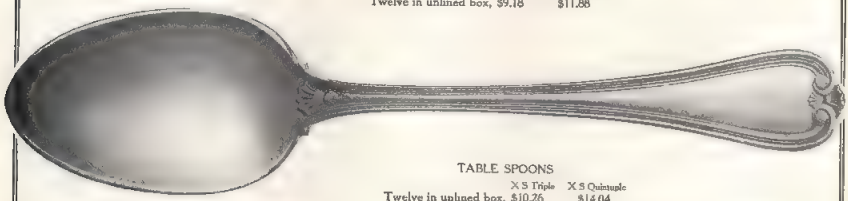


TABLE SPOONS

	XS Triple	XS Quintuple
Twelve in unlined box,	$10.26	$14.04

FLAT HANDLE FORKS

	XS Triple	XS Quintuple
Dessert Forks, twelve in unlined box,	$9.18	$11.88
Medium Forks, twelve in unlined box,	$10.26	$14.04

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll, per doz.,	$17.28
Dessert Knives, six in flannel roll, " "	16.20
Medium Forks, six in flannel roll, per doz.,	$17.28
Dessert Forks, six in flannel roll, " "	16.20

6-8-19

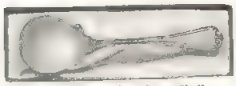
SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

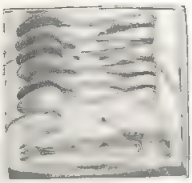
PRISCILLA PATTERN

Illustrations One-third Scale



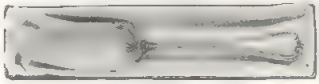
No. 608/72 Sugar Shell
Each, $0.95; with gilt bowl, $1.30

No. 609/72 Butter Knife, twist handle
Each, $1.08; with gilt blade, $1.43



No. 705/72 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/72 Six Coffee Spoons without Tongs
Per set, $2.54; gilt bowls, $4.16
Sugar Tongs only, each, 1.62

No. 604/72 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl, $2.54



No. 683/72 Jelly Knife each, $1.62

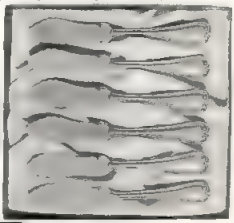
No. 116/72 Child's Set, 3 pieces, per set, $2.16
No. 593/72 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife
Per set, $2.84
No. 703/72 Child's Set, 3 pieces and Napkin Ring, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $3.51
No. 721/72 School Set, Dessert Knife hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring
Per set, $4.41

No. 622/72 Six Oyster Forks, per set, $3.40

No. 647/72 Six Orange or Grape Fruit Spoons, per set, $3.24

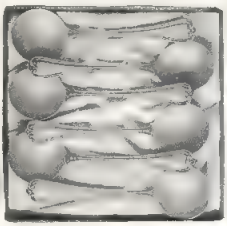
No. 725/72
Baby Spoon, ea., $0.68
No. 727/72
Baby Set, Spoon and Food Pusher
Per set, $1.35

No. 726/72
Food Pusher, each, $0.68



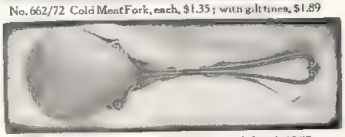
No. 652/72 Six Butter Spreaders
Per set, $4.59
No. 719/72 Six Butter Spreaders, hollow handle, per set, $6.48

Iced Tea Spoon
Per doz., $7.02

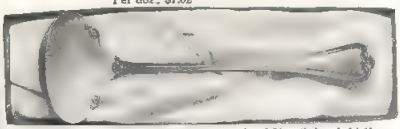


No. 720/72 Six Bouillon Spoons, per set, $4.86

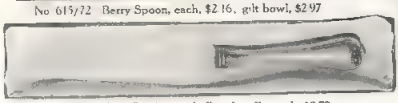
No. 662/72 Cold Meat Fork, each, $1.35; with gilt tines, $1.89



No 615/72 Berry Spoon, each, $2.16, gilt bowl, $2.97



No. 612/72 Oyster Ladle (illustrated), each, $3.51; gilt bowl, $4.41
No. 610/72 Cream Ladle, each, $1.22; gilt bowl, $1.76
No. 611/72 Gravy Ladle, each, $1.62; gilt bowl, $2.43
No. 613/72 Medium Ladle, each, $4.32; gilt bowl, $5.40



No. 621/72 Pie Server, hollow handle, each, $2.70

SPOONS, FORKS ETC. STAMPED
1847 ROGERS BROS.
ARE GENUINE "ROGERS" GOODS

KNOWN FOR YEARS AS
"SILVER PLATE THAT WEARS"
WHEREVER SILVER IS USED

THE "Old Colony" is the highest achievement attained in silver plate. Note the pierced handle and the sterling effect of design, rich in character rather than ornamentation, and possessing both simplicity and individuality.

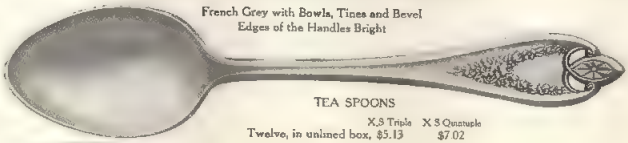
THE "Old Colony" like all ware stamped 1847 ROGERS BROS. is known as "Silver Plate that Wears" and is the only brand of silver plate with an unqualified guarantee that is backed by the actual test of sixty-five years.

PRICES PER DOZEN

OLD COLONY PATTERN

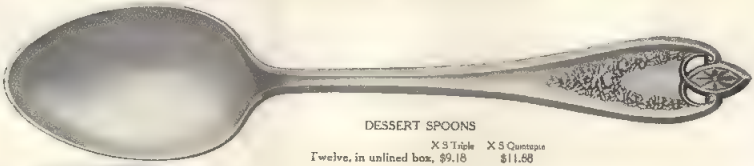
ILLUSTRATIONS ACTUAL SIZE

French Grey with Bowls, Tines and Bevel Edges of the Handles Bright



TEA SPOONS

X S Triple — Twelve, in unlined box, $5.13
X S Quintuple — $7.02



DESSERT SPOONS

X S Triple — Twelve, in unlined box, $9.18
X S Quintuple — $11.68

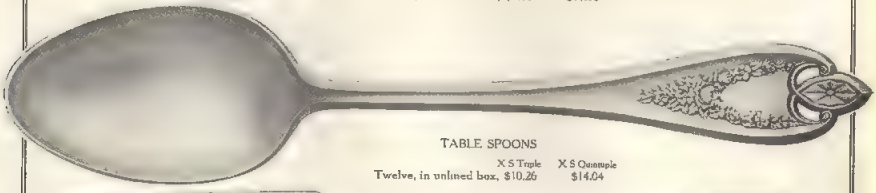


TABLE SPOONS

X S Triple — Twelve, in unlined box, $10.26
X S Quintuple — $14.04

FLAT HANDLE FORKS

Dessert Forks, twelve in unlined box, X S Triple $9.18, X S Quintuple $11.68

Medium Forks, twelve in unlined box, X S Triple $10.26, X S Quintuple $14.04

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll, per doz., $17.28
Dessert Knives, six in flannel roll, " " 16.20

Medium Forks, six in flannel roll, per doz., $17.28
Dessert Forks, six in flannel roll, " " 16.20

6-6-.2

SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

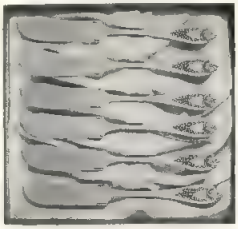
OLD COLONY PATTERN

Illustrations One-third Scale

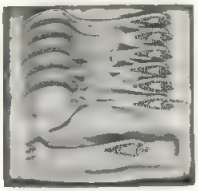
No. 609/78 Butter Knife, bent handle, each, $1.08
With gilt blade, $1.43

No. 751/78 Cheese Server, hollow handle
Each, $1.08

No. 608/78 Sugar Shell, each, $0.95
With gilt bowl, $1.30



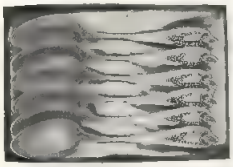
No. 652/78 Six Butter Spreaders, flat handle, per set, $4.59
No. 719/78 Six Butter Spreaders, hollow handle, per set, $6.48



No. 705/78 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/78 Six Coffee Spoons, without Tongs, per set, $2.54; gilt bowls, $4.16
Sugar Tongs only, each, $1.62

No. 604/78 Butter Knife and Sugar Shell
Per set, $1.98, with gilt bowl, $2.34

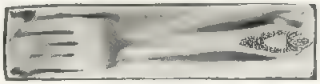
No. 622/78 Six Oyster Forks
Per set, $3.40



No. 626/78 Six Tea Spoons per set, $2.84

No. 681/78 Pickle Fork, long, each, $1.22

No. 768/78 Baby Fork, short handle, each, $0.68

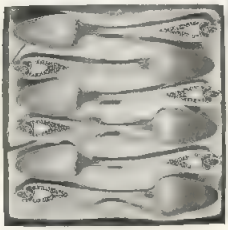


No. 662/78 Cold Meat Fork, each, $1.35
With gilt tines, $1.89

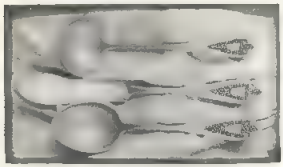
No. 767/78 Baby Spoon, short handle, each, $0.68
No. 769/78 Short Handle Baby Spoon and Fork, per set, $1.35
No. 770/78 Short Handle Baby Spoon and Fork and Food Pusher
Per set, $2.03

No. 726/78 Food Pusher
Each, $0.68
No. 727/78 Baby Spoon, bent handle, and Food Pusher, per set, $1.35

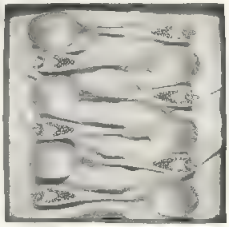
No. 615/78 Berry Spoon, each, $2.16, with gilt bowl, $2.97



No. 647/78 Six Orange or Grape Fruit Spoons, per set, $3.24



No. 702/78 Butter Knife, Sugar Shell and Cream Ladle, per set, $3.51



No. 762/78 Six Egg Spoons
Per set, $2.84

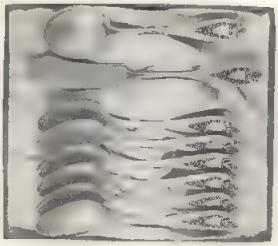
SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

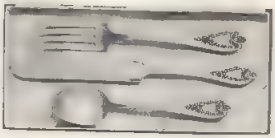
ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

OLD COLONY PATTERN

Illustrations One-third Scale

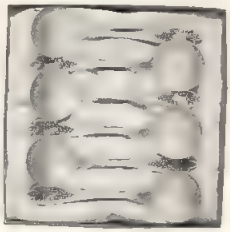


No. 710/78 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86



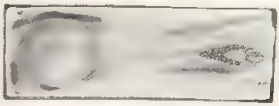
No. 116/78 Child's Set, 3 pieces, per set, $2.16
No. 593/78 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife Per set, $2.84

No. 703/78 Child's Set, 3 pieces, and Napkin Ring, with Nickel Silver, Silver Soldered, Hollow Handle Knife, per set, $3.51
No. 721/78 School Set, Dessert Knife, Hollow Handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set, $4.41

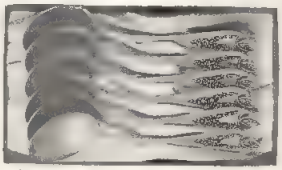


No. 720/78 Six Bouillon Spoons Per set, $4.86

No. 753/78 Cheese Scoop, flat handle, each, $1.35
No. 643/78 Cheese Scoop, hollow handle Each, $2.16



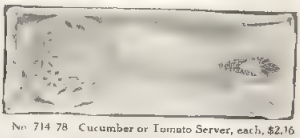
No. 716/78 Preserve or Jelly Spoon, each, $1.62



No. 713/78 Six Soup Spoons, per set, $5.67

No. 683/78 Jelly Knife, each, $1.08

Iced Tea Spoon Per doz., $7.02

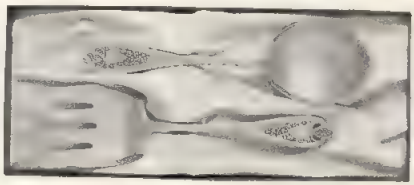


No. 714/78 Cucumber or Tomato Server, each, $2.16

No. 612/78 Oyster Ladle (illustrated), each, $3.51; gilt bowl, $4.41
No. 610/78 Cream Ladle, each, $1.22; gilt bowl, $1.76
No. 611/78 Gravy Ladle, each, $1.62; gilt bowl, $2.43
No. 760/78 Mayonnaise Ladle, each, $1.08; gilt bowl, $1.43
No. 613/78 Medium Ladle, each, $4.32, gilt bowl, $5.40

No. 737/78 Ice Cream Server and Six Ice Cream Forks Per set, $7.29

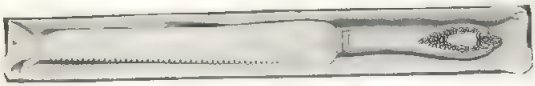
No. 708/78 Ice Cream Server and Six Ice Cream Spoons Per set, $6.48



No. 639/78 Salad Spoon and Fork, per set, $4.86

OLD COLONY PATTERN

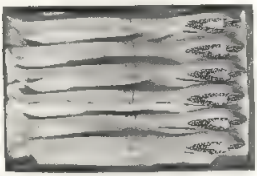
Illustrations One-third Scale



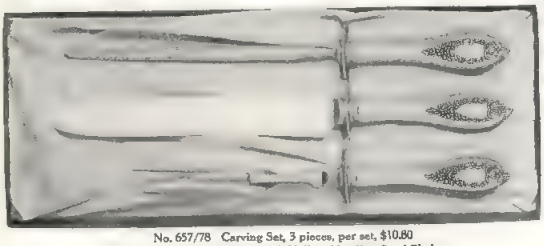
No. 732/78 Bread Knife, hollow handle, each, $2.16

No. 2. Fruit Knife

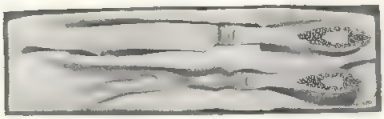
No. 621/78 Pie Server, hollow handle, each, $2.70



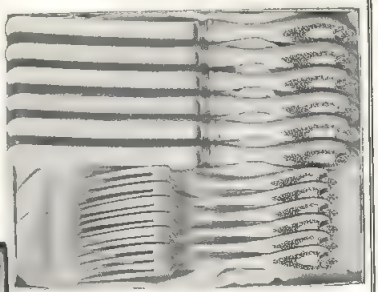
No. 738/78 Six Hollow Handle No. 1 Fruit Knives, per set, $6.48
No. 650/78 Six Hollow Handle No. 2 Fruit Knives, per set, $6.48
No. 739/78 Six Hollow Handle No. 2 Fruit Knives, saw back, per set, $7.29



No. 657/78 Carving Set, 3 pieces, per set, $10.80
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blade



No. 733/78 Breakfast Set, 2 pieces, per set, $4.86
No. 734/78 Breakfast Set, 3 pieces, per set, 7.02
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades



No. 158½ Old Colony (illustrated), per set, $13.77
Six Hollow Handle Medium Knives and Flat Handle Medium Forks
No. 159½ Old Colony Dessert, per set, $12.69
No. 160½ Old Colony, per set, $17.28
Six Hollow Handle Medium Knives and Forks
No. 161½ Old Colony, per set, $16.74
Six Hollow Handle Medium Knives and Dessert Forks
No. 162½ Old Colony, per set, $16.20
Six Hollow Handle Dessert Knives and Forks

No. 658/78 Game Set, 2 pieces, per set, $7.56
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blade

SPOONS FORKS, ETC STAMPED
1847 ROGERS BROS.
ARE GENUINE "ROGERS" GOODS

Although there are several makes of Rogers goods, there is but one **1847** ROGERS BROS.

KNOWN FOR YEARS AS
"SILVER PLATE THAT WEARS"
WHEREVER SILVER IS USED

Every piece of **1847** ROGERS BROS. ware has back of it an absolute guarantee.

Designs in **1847** ROGERS BROS. brand are the equal of the best sterling silver, in pattern, finish and general excellence of making — the result of sixty-five years' experience, combined with the determination to produce the best at whatever cost. The "silvery" effect so pleasing to the eye and so often lacking is exemplified in these designs in all its beauty.

PRICES PER DOZEN

SHARON PATTERN

French Grey with Bright Bowls, Tines and Shield

ILLUSTRATIONS ACTUAL SIZE

TEA SPOONS

	X S Triple	X S Quintuple
Twelve, in unlined box,	$5.13	$7.02

DESSERT SPOONS

	X S Triple	X S Quintuple
Twelve, in unlined box,	$9.18	$11.88

TABLE SPOONS

	X S Triple	X S Quintuple
Twelve, in unlined box,	$10.26	$14.04

FLAT HANDLE FORKS

	X S Triple	X S Quintuple
Dessert Forks, twelve in unlined box,	$9.18	$11.88
Medium Forks, twelve in unlined box,	$10.26	$14.04

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll, per doz.,	$17.28	Medium Forks, six in flannel roll, per doz.,	$17.28
Dessert Knives, six in flannel roll, " "	16.20	Dessert Forks, six in flannel roll, " "	16.20

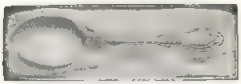
SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

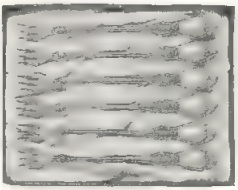
SHARON PATTERN

Illustrations One-third Scale



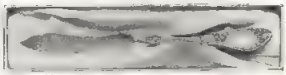
No. 608/76 Sugar Shell
Each, $0.95; with gilt bowl, $1.30

No. 683/76 Jelly Knife, each $1.08



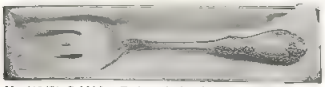
No. 622/76 Six Oyster Forks
Per set, $3.40

No. 604/76 Butter Knife and Sugar Shell
Per set, $1.98; with gilt bowl, $2.34

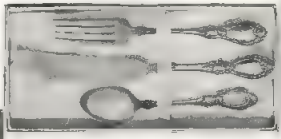


No. 609/76 Butter Knife, twist handle
Each, $1.08; with gilt blade, $1.43

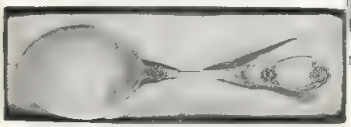
No. 705/76 Sugar Tongs and Six Coffee Spoons, per set, $4.59
No. 624/76 Six Coffee Spoons without tongs
Per set, $2.54 gilt bowls, $4.16
Sugar Tongs, alone, each, 1.62



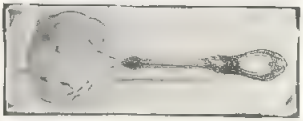
No. 662/76 Cold Meat Fork, each, $1.35; with gilt tines, $1.89



No. 116/76 Child's Set, 3 pieces, per set, $2.16
No. 593/76 Child's Set, 3 pieces, with Nickel Silver, Silver Soldered, Hollow Handle Knife
Per set, $2.84
No. 703/76 Child's Set
Same pieces as No. 593 and Napkin Ring
Per set, $3.51



No 6.5/76 Berry Spoon, each, $2.16, gilt bowl, $2.97



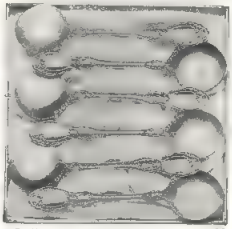
No 714/76 Cucumber or Tomato Server, each, $2.16

No. 721/76 School Set, Dessert Knife, hollow handle, Dessert Fork and Spoon, Tea Spoon and Napkin Ring, per set, $4.41

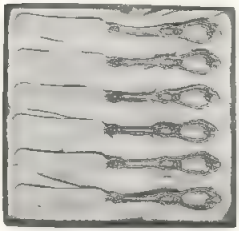
No. 725/76 Baby Spoon, bent handle, each, $0.66
No. 727/76 Baby Spoon and Food Pusher, per set, $1.35

Iced Tea Spoon
Per doz., $7.02

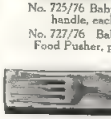
No. 776/76 Food Pusher, each, $0.68



No. 720/76 Six Bouillon Spoons, per set, $4.86

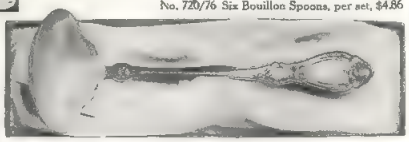


No. 652/76 Six Butter Spreaders
Per set, $4.59
No. 719/76 Six Butter Spreaders, hollow handle, per set, $6.48

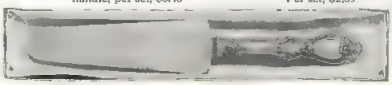


No. 768/76 Baby Fork, short handle, each, $0.68

No. 767/76 Baby Spoon, short handle, each, $0.68
No. 769/76 Short Handle Baby Spoon and Fork
Per set, $1.35
No. 770/76 Short Handle Baby Spoon and Fork and Food Pusher
Per set, $2.03



No. 612/76 Oyster Ladle (illustrated), each, $3.51, gilt bowl, $4.41
No. 774/76 Bouillon Ladle, each, $1.62; gilt bowl, $2.43
No. 610/76 Cream Ladle, each, $1.22, gilt bowl, $1.76
No. 611/76 Gravy Ladle, each, $1.62; gilt bowl, $2.43
No. 760/76 Mayonnaise Ladle, each, $1.08; gilt bowl, $1.43
No. 613/76 Medium Ladle, each, $4.32; gilt bowl, $5.40



No. 621/76 Pie Server, hollow handle, each, $2.70

SPOONS FORKS AND OTHER PIECES STAMPED

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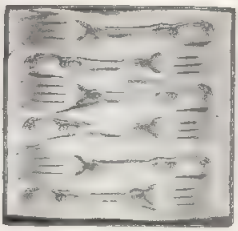
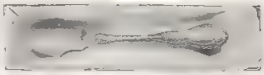
SHARON PATTERN

Illustrations One-third Scale

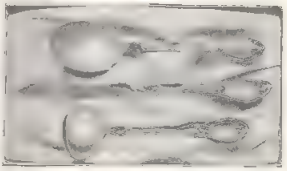


No. 752/76 Six Individual Pastry Forks Per set, $5.13

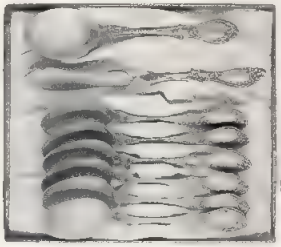


No. 753/76 Cheese Scoop, flat handle, each, $1.35
No. 643/76 Cheese Scoop, hollow " " 2.16

No. 751/76 Cheese Server, hollow handle Each, $1.08

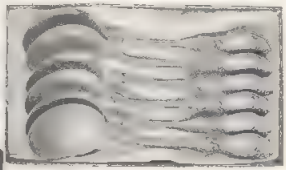


No. 702/76 Butter Knife, Sugar Shell and Cream Ladle, per set, $3.51



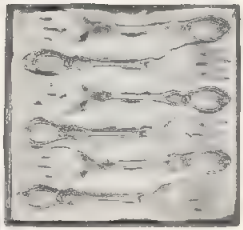
No. 710/76 Sugar Shell, Butter Knife and Six Tea Spoons, per set, $4.86

No. 715/76 Beef Fork, each $1.13



No. 713/76 Six Soup Spoons, per set $5.67

No. 763/76 Honey Spoon, each, $1.08

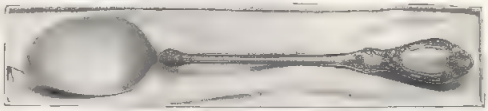


No. 717/76 Six Individual Salad Forks Per set, $5.13

No. 722/76 Pickle Fork, short, each, $0.95

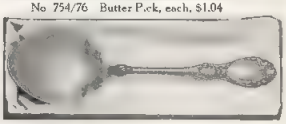
No. 647/76 Six Orange or Grape Fruit Spoons, per set, $3.24

No. 681/76 Pickle Fork, long, or Olive Fork, each, $1.22

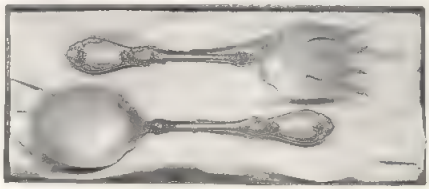


No. 764/76 Platter Spoon, each, $3.78

No. 754/76 Butter Pick, each, $1.04



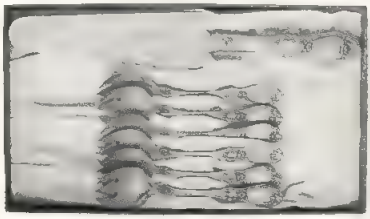
No. 716/76. Preserve or Jelly Spoon, each, $1.62



No. 639/76 Salad Spoon and Fork, per set, $4.86

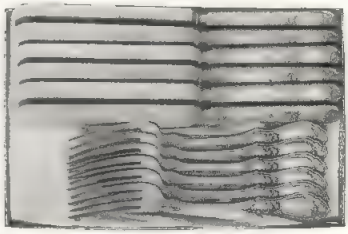
Illustrations One-third Scale

SHARON PATTERN

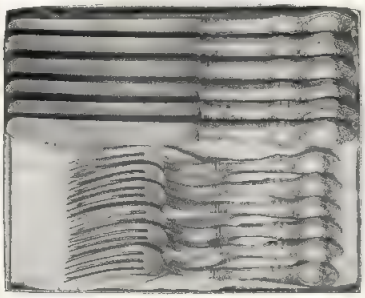


No. 737/76 Ice Cream Server and Six Ice Cream Forks
Per set, $7.29
No. 708/76 Ice Cream Server and Six Ice Cream Spoons
Per set, $6.48

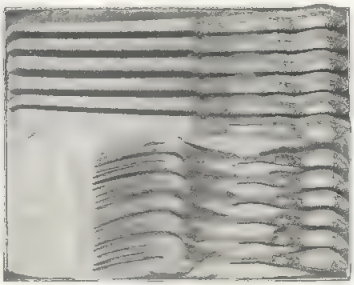
No. 732/76
Bread Knife,
hollow handle
Each, $2.16



No. 155½ Sharon. Six each No. 51 Medium Knives and Flat Handle Medium Forks, per set, $9.23
No. 156½ Sharon. Dessert, per set, $8.64



No. 160½ Sharon. Six Hollow Handle Medium Knives and Forks
Per set, $17.28
No. 161½ Sharon. Six Hollow Handle Medium Knives and
Dessert Forks, per set, $16.74
No. 162½ Sharon. Six Hollow Handle Dessert Knives and Forks
Per set, $16.20



No. 158½ Sharon. Six Hollow Handle Medium Knives and
Flat Handle Medium Forks, per set, $13.77
No. 159½ Sharon. Dessert, per set, $12.69

No. 2 Fruit Knife

No. 738/76 Six Hollow Handle No. 1 Fruit
Knives, per set, $6.48
No. 650/76 Six Hollow Handle No. 2 Fruit
Knives, per set, $6.48
No. 739/76 Six Hollow Handle No. 2 Fruit
Knives, saw back, per set, $7.29

No. 657/76 Carving Set, 3 pieces, per set, $10.80
No. 658/76 Game Set, 2 pieces, " " 7.56
No. 733/76 Breakfast Set, 2 pieces, " " 4.86
No. 734/76 Breakfast Set, 3 pieces, " " 7.02
Nickel Silver, Silver Soldered, Hollow Handles, Steel Blades

SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

'Silver Plate that Wears"

PRICES PER DOZEN

BERKSHIRE PATTERN

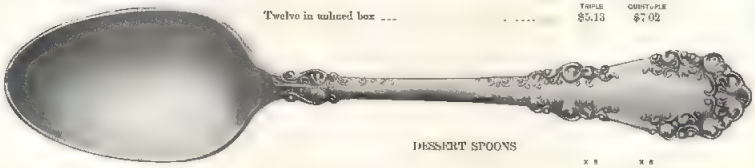
Bright

ILLUSTRATIONS ACTUAL SIZE

A conventional design that is pleasing and which has proved very satisfactory. Unobtrusive in character, it is in harmony with any setting, whether simple or elaborate. In outline it is well-balanced and graceful.

TEA SPOONS

	X G TRIPLE	X S QUINTUPLE
Twelve in unlined box	$5.13	$7.02



DESSERT SPOONS

	X E TRIPLE	X S QUINTUPLE
Twelve in unlined box	$9.18	$11.88

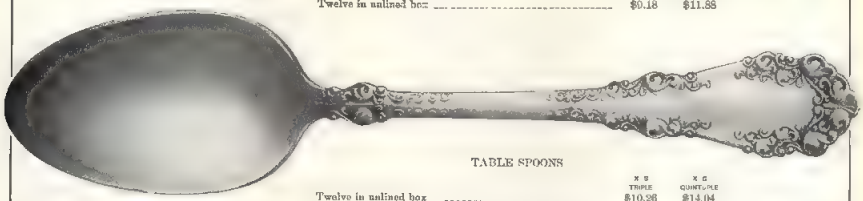


TABLE SPOONS

	X S TRIPLE	X G QUINTUPLE
Twelve in unlined box	$10.26	$14.04

FLAT HANDLE FORKS

	X E TRIPLE	X S QUINTUPLE
Dessert Forks, twelve in unlined box	$9.18	$11.88
Medium Forks, twelve in unlined box	$10.26	$14.04

HOLLOW HANDLE KNIVES AND FORKS

Medium Knives, six in flannel roll	per doz., $17 28	Medium Forks, six in flannel roll	per doz., $17 28
Dessert Knives, six in flannel roll	" " 16 20	Dessert Forks, six in flannel roll	" " 16.20

SPOONS FORKS AND OTHER PIECES STAMPED

1847 ROGERS BROS.

ARE THE ORIGINAL AND GENUINE "ROGERS" GOODS

Silver Plate that Wears

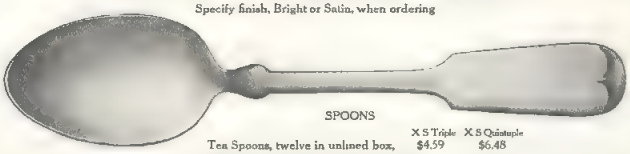
PRICES PER DOZEN

TIPPED AND SHELL PATTERNS

ILLUSTRATIONS ACTUAL SIZE

Specify finish, Bright or Satin, when ordering

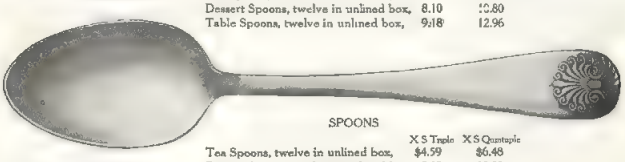
TIPPED TEA SPOON



SPOONS

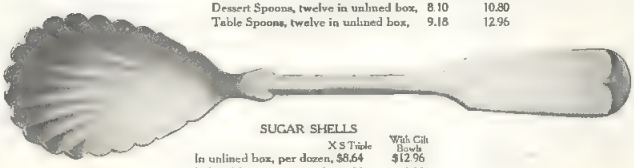
	XS Triple	XS Quintuple
Tea Spoons, twelve in unlined box,	$4.59	$6.48
Dessert Spoons, twelve in unlined box,	8.10	10.80
Table Spoons, twelve in unlined box,	9.18	12.96

SHELL TEA SPOON



SPOONS

	XS Triple	XS Quintuple
Tea Spoons, twelve in unlined box,	$4.59	$6.48
Dessert Spoons, twelve in unlined box,	8.10	10.80
Table Spoons, twelve in unlined box,	9.18	12.96



SUGAR SHELLS

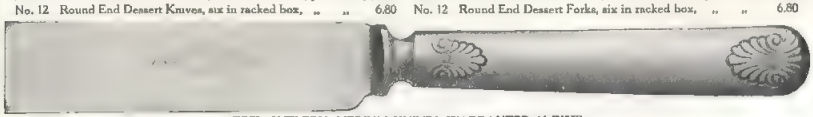
	XS Triple	With Gilt Bowls
In unlined box, per dozen,	$8.64	$12.96
In lined box, each,	.86	1.22

BUTTER KNIVES, TWIST HANDLE

	XS Triple	With Gilt Blades
In unlined box, per dozen,	$10.80	$15.12
In lined box, each,	1.04	1.40

STEEL CUTLERY, MEDIUM KNIVES, WARRANTED 16 DWT.

No. 12	Round End Medium Knives, six in racked box, per dozen, $7.00	No. 12	Round End Medium Forks, six in racked box, per dozen, $7.00
No. 12	Round End Dessert Knives, six in racked box, " " 6.80	No. 12	Round End Dessert Forks, six in racked box, " " 6.80



STEEL CUTLERY, MEDIUM KNIVES, WARRANTED 16 DWT.

No. 12	Shell Medium Knives, six in racked box, per dozen, $7.20	No. 12	Shell Medium Forks, six in racked box, per dozen, $7.20
No. 12	Shell Dessert Knives, six in racked box, " " 7.00	No. 12	Shell Dessert Forks, six in racked box, " " 7.00

Low Form.

Good Quality. No. 2014.

No. 1. **Morocco covered,** japanned mounts, 1⅛ 1¼ 2¼ in large eye pieces, bent bars, hard black case ... 16/- 17,6 19/- ea

Stocked in 2⅜ in. only.

No. 2. **Morocco covered,** japanned mounts, straight bars, buff case ... ... 20/- 22/- 25/- ,,

Stocked in 1⅛ and 1⅜ in.

No. 3. **Morocco covered,** ditto 12 lenses 29/- 32/- 35/- ,,

Stocked in 2⅜ in. only.

No. 4. **Morocco covered,** japanned mounts, large eye pieces, bent bars, hard black case . 20/9 — — ,,

Stereoscopic Binoculars. No. 2015.

Magnifying power	4	6	8	12 times.
Field of view at 1,000 yards	150	100	115	70 yards.
	A	A	B	B
Price	96/-	112/-	128/-	152/- each.

Achromatic Tourist Telescopes.

No. 2016.

Brass mounts, three draw No 1

Same as above, with sunshade. No 2

Achromatic Marine Telescope, day and night, one draw. No. 3.

Diameter of object glass	⅝	1	1⅛	1⅜	1⅝	1⅞	2 in.
Price	5/3	5/6	6/6	7/3	10/6	13/6	22/- ea.

With Bending Bars as Illustrated.

Tourist Telescope.

No. 2017.

With leather caps and strap, 4 draw, brass mounts, and sunshade.

Size of object glass	1¼	1½	1¾ in.
Price	23/-	32/-	36/- ea

Dumpy Level. No. 2018.

No. 1. Parallel plates, with 4 adjusting screws, extra powerful 8 in. telescope, with rack adjustment, spirit level on telescope in mahogany box with strap, lock and key, polished mahogany round tripod stand, metal cap ... ... each. 113/-

No. 2. Ditto with 10 in. telescope 117/

No. 3. Ditto ,, 12 ,, ,, and 2 levels, as illustrated 169/

No. 4. Ditto with addition of float dial compass, tangent screw to column, and magnifier for reading divisions, 10 in. 153/-

No. 5. Same as above, but with 12 in. telescope ... 193/-

Contractors to the Home, Indian, and Colonial Governments.

SHAVING MIRRORS

ACME

EXTENSION

This is the Ideal Shaving Mirror. It has a Swiveling and Tilting Device as well as an Extension Feature which makes it adjustable to any size Person, also to the Rays of Light.

Each

No. 305—8 inch Round Beveled French Mirrors. All Metal Parts made of Brass, Highly Nickel Plated and Polished; Mirror fitted with Metal Back; will extend 24 in. and fold Flat against the Wall when not in use; Weight, Each 3¼ lbs $5.00

ADJUSTABLE

Well Built, Strong and Durable, Adjustable to any size Person also to Rays of Light either Artificial or Daylight for Toilet Articles. Can be placed the Mirror at any Angle or Height and will Swing in a Radius of from One to Sixteen inches can be Folded Flat against the Wall or taken down completely when not in use. Each

No. 001—Fitted with 6 inch Beveled French Plate Mirror; all Metal Parts made of Brass Nickel Plated and highly Polished; Metal Back, Arm Extension 16 inches; Weight each 1¾ lbs . . $4.10

GRAVITY EXTENSION

Can be raised or lowered instantly; also Swiveled to reflect the rays of Light. When not in use will fold flat against the Wall.

Each

No. 2808—8 inch Round Beveled French Plate Mirror; Metal parts Brass, highly Nickel Plated and Polished; Mirror fitted with Metal Back; Weight, Each 2¼ lbs. $3.40

Each

No. 203—Fitted with 6 inch Round Beveled French Plate Mirror on One side and 6 inch Magnifying Lens on the other side, all Metal Parts Brass, Nickel Plated and Highly Polished; Adjustable Easel Stand; Weight each 1⅛ lbs. $3.50

Cut shows Front of Mirror

Cut shows Back of Mirror

Each

No. 004—For use on Bureau or Wall fitted with 6 inch Plain French Plate Mirror; all Metal Parts Brass; Nickel Plated and Highly Polished, Metal Back fitted with Adjustable Rest, Weight each 1 lb $2.00

Showing use as a Wall Mirror

Showing use of an Easel Mirror with Magnifier Side

Showing use as a Hand Mirror

COMBINATION HAND, WALL AND EASEL MIRROR

Each

No. 4082—Fitted with 6 inch Round Beveled French Plate on one side and 6 inch Magnifying Lens on the other side, Metal Parts Brass; Highly Nickel Plated and Polished. Weight, Each 2 lbs. $5.20

One in a Box

WRENCHES.

KEEN KUTTER ADJUSTABLE "S".

Handle and Stationary Jaw Forged from One Piece of Tool Steel, Forged Tool Steel Adjustable Jaw, Polished Jaws; Natural Finish Handles; Knurled Adjusting Screw.

Nos.	K35 6	K35 8	K35 10
Length, inches	6	8	10
Jaws open, inches	⅝	1	1⅜
Weight per dozen about, lbs.	8	12	18
Per dozen	$12.00	14.00	18.00

ADJUSTABLE "S".

Wescott Pattern, Polished and Hardened Cast Steel Jaws; Japanned Finish Handle; Knurled Adjusting Screw; Sliding Jaw works on Grooved Surface in Hollow Part of Head.

Nos.	WP6	WP8	WP10	WP12	WP14
Length, inches	6	8	10	12	14
Extreme Width of Opening, inches	¾	1	1⅜	1⅝	2
Wgt. per doz. abt. lbs.	5½	13	25	37	61
Per dozen	$9.50	12.00	16.00	19.00	28.00

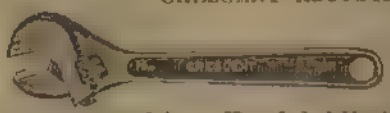
ADJUSTABLE STRAIGHT.

Japanned Malleable Iron Frame; Drop Forged Movable Jaw; Polished Head; Polished Steel Knurled Adjusting Screw. Jaws Offset 22½ degrees. Parts are Interchangeable with Adjustable "S" Wrenches.

Nos.	AS 6	AS 8	AS 10
Length, inches	6	8	10
Extreme Width of Opening, in.	¾	1	1⅜
Weight per dozen about, lbs.	5½	9	16
Per dozen	$9.50	12.00	16.00

One half Dozen in a Wood Box

CRESCENT ADJUSTABLE.



Handle and Stationary Jaw Drop Forged from One Piece High Grade Tool Steel. High Grade Tool Steel Movable Jaw, Adjusted by a Knurled Adjusting Screw in Frame; Polished throughout except Web in Handle which is Black Oil Finish.

Nos.	CA6	CA8	CA10	CA12
Length, inches	6	8	10	12
Capacity, inches	¾	15/16	1⅜	1⅝
Weight per dozen about, lbs.	4	7	13	24
Per dozen	$ 7.20	9.60	12.00	16.80
	11.50	14.00	17.00	22.00

One-twelfth Dozen in a Cardboard Box.

PERFECT STRAIGHT HANDLE, ADJUSTABLE.

Handle and Stationary Jaw Drop Forged from One Piece High Grade Tool Steel. High Grade Tool Steel Movable Jaw, Polished; Adjusted by a Knurled Adjusting Screw in Frame; Hardwood Grips, Treated with Water Proofing Process and Fastened to Handle with Two Steel Rivets, Ends of Steel Handle Close over Wood Grips which Locks them in.

Especially Adapted for Motorists, Machinists and for places where ordinary wrench will not enter.

Nos.	PHW6	PHW8	PHW10
Length, inches	6	8	10
Extreme width of opening, inches	¾	1	1⅜
Weight per dozen about, lbs.	8	12	18
Per dozen	$12.00	14.70	17.50

One-half Dozen in a Cardboard Box; Six Dozen in a Case.

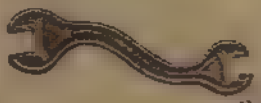
BAY STATE

Per Dozen

No. B6000—Malleable Iron, Self-Colored; 7 in. Long; 9/16, 5/8, ¾, ⅞ and 1 in. Openings. Weight per dozen about [illegible] $1.[illegible]

MACHINE.

Malleable Iron, Polished.



Nos.	23550	23551
Length, inches	6½	8
Openings, inches	½, ⅝	⅝, ¾
Wgt. doz. abt., lbs.	5½	8
Per dozen	$0.82	1.31

Packed Loose

WRENCHES.

"S" MALLEABLE IRON.

No.	2340 4	2340B
Length, inches	10½	13
Openings, in.	⅜, ½, ⅝, ¾, 1, 1¼	⅝, ¾, ⅞, 1⅛, 1¼, 1⅜
Wgt. doz. abt., lbs.	13	15
Per dozen	$2.10	

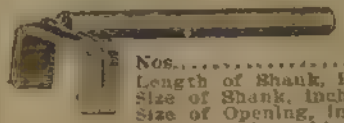
CARRIAGE

Extra Deep Malleable Iron, Polished.

No.	2320H	2320I	2320J
Length, inches	8	8	8
Axle Nut, inches	⅝	¾	1⅛
Openings, inches	½, ⅝, ¾	½, ⅝, ¾	½, ⅝, ¾
Weight per dozen about, lbs.	11	11	11
Per dozen	$1.10	1.10	1.30

Nos.	2320K	2320F	2320G
Length, inches	8	8	8
Axle Nut, inches	⅝	¾	⅞
Openings, inches	½, ⅝, ¾	½, ⅝, ¾	½, ⅝, ¾
Weight per dozen about, lbs.	11	11	11
Per dozen	$1.40	1.90	1.90

WAGON



Steel, Polished.

Nos.	205	210	215	220
Length of Shank, inches	8	8	8	8
Size of Shank, inches	⅝	⅝	⅝	⅝
Size of Opening, inches	2	2¼	2½	2¾
Wgt. per doz. abt., lbs.	16	17	18	18
Per dozen	$2.40	2.60	2.70	2.80

Packed Loose

KEEN KUTTER TEXTILE AND MACHINE.

Double End, Drop Forged from Highest Grade Tool Steel; Case Hardened and Polished; Gray Mottled Finish Body; Bright Heads and Milled Openings.

Nos.	KT2	KT3	KT4	KT5
Length over all, in.	4½	5⅝	5¾	7
Thickness of Head, in.	⅛	⅛	⅛	⅛
Size of Openings, in.	⅜, ½	½, ⅝	⅝, ¾	¾, ⅞
For Nuts, in.	⅜, ½	½, ⅝	⅝, ¾	¾, ⅞
Wgt. doz. abt., lbs.	2	4	5	6
Per dozen	$4.30	5.70	5.70	6.90

Nos.	KT6	KT7	KT8	KT9
Length over all, in.	8	9	10	11
Thickness of Head, in.	⅛	⅛	⅛	⅛
Size of Openings, in.	¾, ⅞	⅞, 1	1, 1⅛	1⅛, 1¼
For Nuts, in.	¾, ⅞	⅞, 1	1, 1⅛	1⅛, 1¼
Wgt. doz. abt., lbs.	8	9	11	13
Per dozen	$8.20	8.20	9.50	11.20

MACHINE

Double End, Drop Forged from Tool Steel, Natural Finish; Milled Openings

Nos.	341	343	344	348
Extreme Length, inches	4	5	6	8
Thickness of Head, inches	⅛	⅛	⅛	⅛
Size of Openings, inches	¼, ⅜	⅜, ½	½, ⅝	¾, ⅞
For Set Screws, inches	¼, ⅜	⅜, ½	½, ⅝	¾, ⅞
For Sq. Hd. Cap Screws, in.	¼, ⅜	⅜, ½	½, ⅝	¾, ⅞
For Hex Hd. Cap Screws, in.	¼, ⅜	⅜, ½	½, ⅝	¾, ⅞
Wgt. per doz. abt., lbs.	1	1½	2	2½
Per dozen	$1.80	1.80	1.80	2.30

Nos.	354	363	367
Extreme Length, inches	6	6	6
Thickness of Head, inches	⅛	⅛	⅛
Size of Openings, inches	¾, 1	¾, 1	1, 1¼
For Set Screws, inches	¾, 1	¾, 1	1, 1¼
For Square Head Cap Screws, in.	¾, 1		¾, 1
For Hexagon Hd. Cap Screws, in.	¾, 1	¾, 1	¾, 1
Weight per dozen about, lbs.	15	15	21
Per dozen	2.90	2.70	3.20

One Dozen in a Wood Box

WRENCHES.

KEEN KUTTER* GENERAL PURPOSE.

Double End, Drop Forged from Highest Grade Tool Steel, Case Hardened and Polished; Gray Mottled Finish Body, Bright Heads and Milled Openings.

Nos.	K380	K500	K580	K750	K1000
Length over all, in.	6	8	10	12	15
Th'kness of Hd., in.					
Size of Open'gs, in.					
For Nuts, inches					
Wgt. doz. abt. lbs.					
Per dozen	$4.50	5.50	6.50	7.50	9.50

One Dozen in a Cardboard Box.

GENERAL PURPOSE

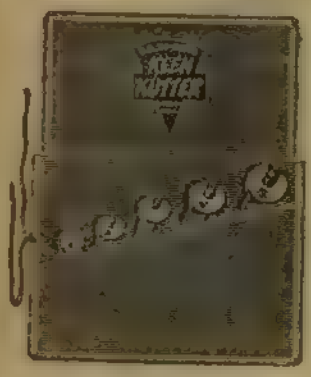
Double End; Drop Forged from Tool Steel; Natural Finish Body, Case Hardened; Bright Heads with Milled Openings.

Nos.	500 S	501/8 S	502 S	503 S	504 S
Length over all, in.	6¼				
Th'kness of Hd., in.					
Size of Open'gs, in.					
For Nuts, inches					
Wgt. doz. abt., lbs.	1¾			12	
Per dozen	$2.40	3.05	3.95	5.00	6.75
	1.80	2.20	2.90	3.70	4.50

Double End; Drop Forged from Tool Steel; Natural Finish Body and Heads; Milled Openings.

Nos.	500U	501U	502U	503U	504U
Length over all, in.	6¼				
Th'kness of Hd., in.					
Size of Open'gs, in.					
For Nuts, inches					
Wgt. doz. abt. lbs.	1¾			12	
Per dozen	$1.80	2.64	3.20	4.08	5.40
	1.20	1.64	2.20	2.70	3.30

Packed Loose.



KEEN KUTTER* GENERAL PURPOSE WRENCHES, IN ROLLS.

Dimensions of Roll, 12 in. Long, 2½ in. Diameter.

Per Roll

No. K185—Black Duck Roll, with Red Binding; Complete with 5 Wrenches, One Each Nos. K380, K500, K580, K750 and K1000.....$1.20

Weight per Roll, with Tools, about 2½ lbs.

GENERAL PURPOSE, IN ROLLS.

Dimensions of Rolls, 12 in. Long, 2½ in. Diameter.

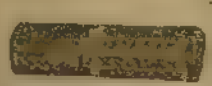
Per Roll

No. 500/8 4—Black Duck Roll, with Red Binding; Complete with 5 Wrenches, One Each Nos. 500/S, 501/S, 502/S, 503/S and 504/S $1.70

No. 500U 4—Black Drill Roll, Complete with 5 Wrenches, One Each Nos. 500U, 501U, 502U, 503U and 504U..... 1.30

Weight per Roll, with Tools, about 2¾ lbs. Packed Loose.

WRENCH ROLLS.



Each

No. KER5—Black Duck Roll, Red Binding, to hold 5 KEEN KUTTER General Purpose Wrenches Nos. K380 to K1000.....$0.60

No. 8ER8/4—Black Duck Roll, Red Binding, to hold 5 Standard General Purpose Wrenches Nos. 500/S to 504/S 50

No. 8ER1/4—Black Drill Roll, to hold 5 Standard General Purpose Wrenches Nos. 500U to 504U. .40

Packed Loose; Weight Each about ½ lb

WRENCHES.

KEEN KUTTER* NUT.

For Bit Braces.

Malleable Iron, Case Hardened and Polished; Gray Mottled Finish, for Square or Hexagon Nuts.

Nos.	K1N	K2N	K3N	K4N
Length, inches	4½	4½	4½	4½
For Nuts, inches	⅜	½	⅝	¾
Diameter of Opening, in.	1⅛	1⅜	1⅝	1⅞
Wgt. per doz. about, lbs.	4	4	4	5
Per dozen	$4.50	4.50	4.50	4.50
Nos.	K5N	K6N	K7N	K8N
Length, inches	4½	4½	4½	5½
For Nuts, inches	⅞	1	1⅛	1¼
Diameter of Opening, in.	2⅛	2⅜	2⅝	2⅞
Wgt. per doz. about, lbs.	5	6	6½	7
Per dozen	$4.50	4.50	4.50	4.50

One Dozen in a Cardboard Box.

Per Set

No. K55N—SETS OF 5 WRENCHES: One Each Nos. K2N, K4N, K5N, K7N and K8N; Weight per Set about 2¼ lbs. $2.00

No. K88N—SETS OF 8 WRENCHES: One Each Nos. K1N, K2N, K3N, K4N, K5N, K6N, K7N and K8N Weight per set about 3¼ lbs.....$3.00

One Set in a Cardboard Box.

LIGHTNING NUT—Cast Steel For Bit Brace Use, For Square and Hexagon Nuts.

Nos.	6021¼	6025 16	6023⅜	6027 16	6023½
Length, inches	4	4⅛	4¼	4⅜	4½
For Nuts, inches	¼	5/16	⅜	7/16	½
Wgt. per doz. abt., lbs.	3	3	3½	3	3½
Per doz.	$5.00	5.00	5.00	5.00	5.00

Nos. 6021¼, 6025 16 and 6023⅜, One-half Dozen; Nos. 6027 16 and 6023½, One-third Dozen in a Cardboard Box.

Per Set

No. 602—SET OF 5 WRENCHES: For Nuts ¼, 5/16, ⅜, 7/16 and ½ inch; Weight per Set about 2 lbs.....$2.20

One Set in a Cardboard Box.

BLACKSMITHS' ANVILS.

KEEN KUTTER BLACK JACK*.

SOLID WROUGHT IRON BODY AND HORN, Japanned Finish, with Hardened and Tempered Crucible Tool Steel Face Welded on; Flat Ground and Polished; Square Hardy Hole near the Heel

Nos.	K75	K80	K85
Dimensions of Face, in.	3⅝x11	3⅝x12	3⅝x13½
Height over all, inches			9
Length over all, inches	18½	20½	22½
Size of Hardy Hole, inches	7/8		
Weight each, lbs.	77 to 79	80 to 83	84 to 87
Per lb.	$0.21	.20	.20
Nos.	K90	K100	K110
Dimensions of Face, inches	3⅝x13½	3⅝x15½	3⅝x15
Height over all, inches	10		11
Length over all, inches	22½	22⅝	25
Size of Hardy Hole, inches	⅞		
Weight each, lbs.	88 to 95	96 to 106	107 to 116
Per lb.	$0.20	.20	.20
Nos.	K120	K125	K130
Dimensions of Face, inches	3⅝x15	3⅝x15	4x15
Height over all, inches	11	11	11
Length over all, inches	25	25	25
Size of Hardy Hole, inches	⅞	⅞	⅞
Weight each, lbs.	117 to 122	124 to 128	129 to 136
Per lb.	$0.20	.20	.20
Nos.	K140	K150	K160
Dimensions of Face, inches	4x15½	4x15½	4x15½
Height over all, inches	11	11	11¾
Length over all, inches			25
Size of Hardy Hole, inches			
Weight each, lbs.	137 to 145	146 to 156	157 to 166
Per lb.	$0.20	.20	.20
Nos.	K175	K200	K225
Dimensions of Face, inches	4x15½	4x15½	4x15½
Height over all, inches	11¾	11¾	11¾
Length over all, inches	25	25	32½
Size of Hardy Hole, inches	1	1	1¼
Weight each, lbs.	167 to 180	191 to 210	211 to 225
Per lb.	$0.20	.20	.20
Nos.	K250	K300	K400
Dimensions of Face, inches	4½x15½	5x15½	6x15½
Height over all, inches	12½	13	14½
Length over all, inches	32½	34	37½
Size of Hardy Hole, inches	1¼	1¼	1⅜
Weight each, lbs.	226 to 250	251 to 300	301 to 400
Per lb.	$0.20	.20	.20

Packed Loose. Face and Hardy Hole Tapered

ALCOHOL GAS STOVES

UNIVERSAL

Brass, Nickel Plated Throughout

Each

No. 0—5¼ in. High, 6⅝ in. Diameter, Equipped with Detachable Wind Shield to Permit its Use Out of Doors..... $2.50
4 00

Burns denatured alcohol gas (self-generated) with a large blow flame, but at a touch it may be regulated to any heat desired, even to a low simmering flame. Unexcelled for making coffee, tea, toast, etc

One in a Box

Japanned Sheet Steel Body, Nickel Plated Brass Reservoir and Burner, Nickel Plated Grate

Each

No. 10—5 in. High, 10⅝ in. Extreme Height, 10⅝ in. Diameter Grate, Accommodates all Regular Cooking Utensils, Clean Burning, Odorless and Absolutely Safe..... $4.50
6 50

One in a Box

ALCOHOL GAS STOVES

GIOGIAU'S

Spun Brass, Nickel Plated

Each

No. 75—4½x4¼x5 in., Capacity of Reservoir 7 Oz., Burns Smokeless, Odorless and Forms no Soot..... $1 00
90

One-twelfth Dozen in a Box

Brass Reservoir and Burner, Tin Plated Steel Legs and Rack

Per Dozen

No. 01—4 in. High, 4¼ in. Diameter of Base 2¼ in. Diameter of Burners, Capacity of Reservoir ½ Pint..... $12 00

This Stove will be found particularly useful in preparing light meals away from the heat of the kitchen, and can be used to especial advantage with the "Universal" Percolators, Chafing Dishes, etc

One in a Box

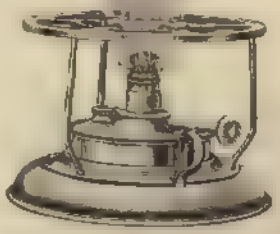
Japanned Sheet Steel Body, Nickel Plated Brass Tank and Burners, Nickel Plated Grate

Each

No. 20—6¼ in. High, 13¼ in. Extreme Height, 21½ in. Long, 13¾ in. Wide, Two Burners, Capacity of Tank 2 Quarts, Accommodates Large Size Bake Oven and all Regular Cooking Utensils..... $9 00
13.00

One in a Box

ALCOHOL LAMPS



Polished Copper Lamp and Base, Highly Polished Brass Grill and Grill Support

Each

No. 08—4½ in. High, 6½ in. Diameter of Base, 6 in. Diameter of Rack, Capacity of Reservoir ¼ Pint..... $3.50

Burns Denatured Alcohol, which is converted into gas by the large blue and intensely hot flame. Regulation to a simmering heat is instantly accomplished by turning the thumb screw. The lamp is absolutely safe, long burning and economical.

One in a Box

OIL HEATERS

Barler Ideal Oil Heaters Have Brass Founts with One Piece Bodies, Seamless Double-Top Wick Tubes, Ideal Easy Wicking Devices, Smokeless Burners, Ideal Wick Stops, Dial Indicators, Fine Nickel Plated Castings

GEM

BARLER IDEAL

	Each
No. 1—24 in. High, 1 Gallon Brass Fount and Burner Dial Indicator, Ball Handle, Feeder Wick, Nickel Plated Castings, Weight Each 20 Lbs.	$5.00
	8 00
	Per Dozen
Extra Wicks—For No 1 Oil Heaters	$2 00

	Each
No. 2—24½ in. High, 1 Gallon Brass Fount and Burner, Double Top Wick Tube, Ideal Wick Stop, Dial Indicator, Ball Handle, Feeder Wick, Nickel Plated Castings, Weight Each 23 Lbs.	$6 [illegible]
	9.00
	Per Dozen
Extra Wicks—For No 2 Oil Heater.	$2 00

BARLER IDEAL

No. 4

No 5

No 10

	Each
No. 4—26 In High 1 Gallon Brass Fount and Burner Double Top Wick Tube, Ideal Wick Stop, Feeder Wick, Dial Indicator Ball Handle, Rollers on Feet, Nickel Plated Castings Weight Each 25 Lbs.	$ 7 00
	11 00
No. 5—27½ In High, 1 Gallon Brass Fount and Burner, Double Top Wick Tube, Ideal Wick Stop Feeder Wick, Dial Indicator, Ball Handle, Rollers on Feet, Nickel Plated Castings, Weight Each 30 Lbs	8 00
	12 50
No. 10—29 In High, Five Quart Brass Fount and Burner Inside Hot Circulating Tubes Double Top Wick Tube, Ideal Wick Stop, Feeder Wick, Dial Indicator, Rollers on Feet, Full Polished Nickel Plated Castings, Weight Each 45 Lbs	11 00
	17 00

EXTRA WICKS

For Heaters, Nos.	**4**	**5**	**10**
Per Dozen	**$2.00**	**2.00**	**2.00**

GUN CASES.

No. 15—COMMON SENSE Hexagon Case, 56 in. High, 31 in. in Diameter, with Revolving Center. Finished Oak Frame, all Glass Sides. One Side Opens as a Door, with Lock and Key; Lower Platform Holds 12 Shot Guns or Rifles; Upper Platform in Center holds 12 Target Rifles, Air Guns, etc. CASE ONLY, Boxed Ready for Shipment $28.00

Weight Each, Boxed, about 220 lbs

To be placed on the Counter.

Every Merchant will appreciate the Common Sense Gun Case. It will pay for itself in one Season. A large display of Guns always before your customers, but in a Locked Case. No Rusty Guns to be sacrificed. No danger from sneak thieves. No one can visit your Store without looking at your Guns. When Guns are out of season, and the stock is low, the interior of this Case is so arranged that other goods can be displayed to advantage.

DOUBLE BARREL GUNS.

ENDERS ROYAL®, HAMMERLESS.

BORED FOR NITRO POWDER.

BARRELS—Royal Steel Barrels, Choke Bored for Nitro Powder; Raised Matted Extension Rib, Heavy Breech.

STOCK—Oiled Finish Walnut Stock; Nicely Checkered Half Pistol Grip, Checkered Rubber Butt Plate; Patent Compensating Snap Fore-end.

FRAME—Box Frame; Solid Plungers; Automatic Safety; Frame and Top Lever Case Hardened; Other Trimmings Blued.

ENDERS ROYAL®; PLAIN

WITHOUT EJECTOR

Each

No. ER12—12 GAUGE, 28, 30 and 32 in. Barrels, Weight each 7¼ to 7¾ lbs.....$27.00

No. ER16—16 GAUGE; 28 and 30 in. Barrels; Weight each 6¾ to 7 lbs.....27.00

ENDERS ROYAL®; ENGRAVED

WITHOUT EJECTOR.

Each

No. ERX12—12 GAUGE; 28, 30 and 32 in. Barrels; Weight each 7¼ to 7¾ lbs.....$30.00

No. ERX16—16 GAUGE, 28 and 30 in. Barrels; Weight each 6¾ to 7 lbs.....30.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 125 lbs

AMERICAN DOUBLE BARREL GUNS.

HARTFORD FIRE ARMS CO.'S® HAMMER.

BORED FOR NITRO POWDER

BARRELS—Genuine Armory Steel Barrels, Choke Bored, Water Table Breech; Matted Extension Rib.

STOCK—Walnut Stock, Half Pistol Grip, Checkered; Checkered Rubber Butt Plate; Checkered Deeley & Edge Fore-end.

FRAME—Flat Frame; Bar Rebounding Locks, All Parts Interchangeable; Double Bolt; Low Circular Hammers, IMPROVED PATENT Plungers; Frame Locks, Top Lever and Hammers Case Hardened, other Trimmings Blued.

Gun can be Opened while at full Cock.

WITHOUT EJECTOR.

Each

No. 70, 12—12 GAUGE; 28, 30 and 32 in. Barrels; Weight each 7⅛ to 8½ lbs.....$16.00

No. 70, 16—16 GAUGE; 28 and 30 in. Barrels; Weight each 7 to 7½ lbs.....16.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 120 lbs

BARRELS—Genuine Armory Steel Barrels; Matted Extension Rib.

STOCK—Walnut Stock, Checkered Pistol Grip and Fore-end.

FRAME—Flat Frame; Bar Rebounding Locks, All Parts Interchangeable, Low Circular Hammers; IMPROVED PATENT Plungers; Frame, Locks, Top Lever and Hammers Case Hardened; Other Trimmings Blued.

WITHOUT EJECTOR

Each

No. 70, 28—28 GAUGE; 26 in. Barrels; Weight each about 4¾ lbs.....$18.00

No. 70, 44—44 CALIBER, Shoots 44 XL SHOT CARTRIDGES and 44 W. C. F. Shot Cartridges, 26 in. Barrels; Weight each about 4¾ lbs.....

One in a Cardboard Box, Ten in a Case; Weight per Case about 90 lbs

SPRINGFIELD ARMS CO.'S HAMMERLESS.

BORED FOR NITRO POWDER

BARRELS—Genuine Armory Blued Steel; Choke Bored, Matted Extension Rib; Double Bolt.

STOCK—Walnut Stock, Checkered Pistol Grip, Checkered Rubber Butt Plate; Deeley & Edge Pattern Full Checkered Fore-end; Side Indicators Showing when Gun is Cocked.

FRAME—Drop Forged; Case Hardened Flat Frame; Top Snap; Automatic Safety; Triggers and Trigger Guard Blued.

WITHOUT EJECTOR

Each

No. S. 12—12 GAUGE; 28, 30 and 32 in. Barrels; Weight each 7¼ to 8 lbs.....$22.00

No. S. 16—16 GAUGE; 28 and 30 in. Barrels; Weight each 7¼ to 8 lbs.....22.00

Ten in a Case; Weight per Case about 110 lbs

Safety and Barber Razors

The Gem Junior Safety Razor, 7 Blades.

9964 A keen blade for every day in the week. The very best value for the money you ever heard of and a delight to men who shave. Price.....**$2.00**
Extra blades, package of seven..... **.80**

Ender's New Dollar Safety Razor.

Nickel plated handle in fine button fastener velvet lined leatherette case, with seven blades
9965 Each, net **$2.00**
Extra blades per package of five..... ..... **.60**

The "Weller" Safety Razor.

9966 Weller Safety Razor. Parisian Ivory handle, adjustable blade. Complete with six blades **$2.00**
Extra blades, per package of six . . **1.00**

9967 "American Gem," hand hollow ground, highest grade English razor steel. Each..... .....**$3.30**

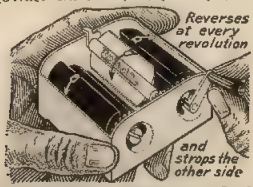
9968 Most beautiful razor made. Extra hollow ground from highest grade English razor steel. Each **$4.00**

9969 Hand forged and ground, best English steel. Each **$2.80**

Be Sure and Put the Page Number, the Article Number and Price on Your Order. It Will Prevent Errors.

Shaving Supplies

THE "TWINPLEX"
ROTARY SAFETY RAZOR SHARPENER.



9970 Twinplex Stropper for Gillette Brades. This simple little sharpener will KEEP a blade sharp for 100 or more shaves. Gives blades a hollow ground edge and makes them better than new. Strops both edges at once. Reverses and strops other side without blade being removed. Price..... **$6.65**

THE ANTICOR, Jr. CORN REMOVER

The Safety Corn Shaver and Callous Remover. Heavy nickel plate with one double-edge blade. Can't cut you, because it is made so it won't.

Shaves the corn or callous off in thin wafers, cannot cut the live or healthy skin, no danger of blood poison. Does all that a chiropodist can do and does it better and safer. Takes the corn or callous off in a minute and keeps them away forever. So simple a child can use it

9971 Each, with one blade **$0.50**
9972 Per dozen on a very attractive display stand. **5.50**
Extra blades package of three . . . . . **.50**

Stronghold Shaving Brushes

Bristles Set in Vulcanized Rubber.

9973 Adjustable Shaving Mirror, Nickel, Adjustable to any conceivable position on Window Sash, Table, Shelf, etc., Diameter, 6 inches. Each **$3.00**

9974
High Grade Imported Bristles, Wood Handle, **$0.80** each.

9975
Genuine Badger Bristles, Polished White, Composition, Handle, **$1.35** each.

9977 Extra Choice Heavy Double Horse Hide Razor Strop, Gilt Swivel, Broke in, ready for use. None better on the market. Size, 27x2½ inches. Each **$2.50**

9976 Razor Hone, 5x2 inches, finest quality genuine "Franz Swaty" has a coarse and a fine side, weight, per dozen, 5½ lbs. Each. **$1.20**

9978 Razor Strop, Heavy loop swivel, nickeled. Double Horse Hide Strop, stuffed handle. Each **$0.60**

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

‡SCREW CASES

AMERICAN

Octagon Shape; Made of Selected White Pine, Varnished; Metal Drawers with Wood Fronts; White Porcelain Knob on each Drawer; Top part revolves on Base

The Drawers are all provided with Stops to prevent their removal from the Case. Each Drawer holds a Package of Bolts or Screws of the Size and Number indicated on the front of the Drawer.

Each

‡No 1—72 DRAWERS; Height 34 in., Width 21 in., Depth 21 in., Weight each about 80 lbs. $40.00

‡No 2—80 DRAWERS; Height 36 in., Width 21 in., Depth 21 in.; Weight each about 85 lbs. 40.00

‡No 3—88 DRAWERS; Height 40 in., Width 25 in.; Depth 25 in.; Wgt. each about 90 lbs. 50.00

‡No 4—96 DRAWERS; Height 42 in., Width 25 in.; Depth 25 in.; Wgt. each about 90 lbs. 54.00

No. 1 SCREW CASE Contains Drawers labeled for following sizes of Screws:

½-in. x 3, 4, 5, 6, 7.	1½-in. x 8, 9, 10, 11, 12, 13, 14, 15, 16.
⅝-in. x 3, 4, 5, 6, 7, 8.	1¾-in. x 9, 10, 11, 12, 13, 14, 15, 16, 17.
¾-in. x 3, 4, 5, 6, 7, 8, 9.	2 -in. x 10, 11, 12, 13, 14, 15, 16, 17, 18.
⅞-in. x 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	2½-in. x 12, 13, 14, 15, 16.
1 -in. x 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.	3 -in. x 16, 18, 20, 22.
1⅛-in. x 7, 8, 9, 10, 11, 12, 13, 14, 15.	

No. 2 SCREW CASE Contains Drawers labeled for following sizes of Screws:

½-in. x 3, 4, 5, 6, 7.	1½-in. x 8, 9, 10, 11, 12, 13, 14, 15, 16.
⅝-in. x 3, 4, 5, 6, 7, 8.	1¾-in. x 9, 10, 11, 12, 13, 14, 15, 16, 17.
¾-in. x 3, 4, 5, 6, 7, 8, 9.	2 -in. x 10, 11, 12, 13, 14, 15, 16, 17, 18.
⅞-in. x 4, 5, 6, 7, 8, 9, 10.	2½-in. x 12, 13, 14, 15, 16.
1 -in. x 4, 5, 6, 7, 8, 9, 10, 11, 12.	3 -in. x 16, 18, 20, 22.
1⅛-in. x 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.	

No. 3 SCREW CASE Contains Drawers labeled for following sizes of Screws:

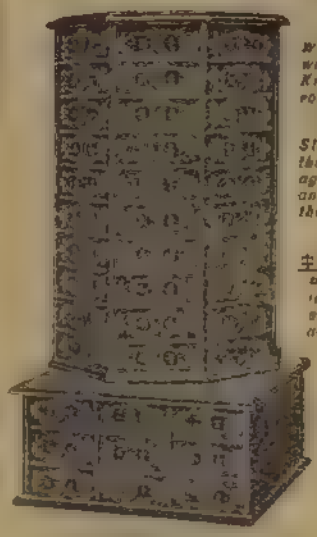
½-in. x 3, 4, 5, 6, 7.	1½-in. x 8, 9, 10, 11, 12, 13, 14, 15, 16.
⅝-in. x 3, 4, 5, 6, 7, 8.	1¾-in. x 9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
¾-in. x 3, 4, 5, 6, 7, 8, 9.	2 -in. x 10, 11, 12, 13, 14, 15, 16, 17, 18.
⅞-in. x 4, 5, 6, 7, 8, 9, 10.	2½-in. x 12, 13, 14, 15, 16.
1 -in. x 4, 5, 6, 7, 8, 9, 10, 11, 12.	3 -in. x 16, 18, 20, 22.
1⅛-in. x 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.	

No. 4 SCREW CASE Contains Drawers labeled for following sizes of Screws

½-in. x 3, 4, 5, 6, 7.	1½-in. x 8, 9, 10, 11, 12, 13, 14, 15, 16
⅝-in. x 3, 4, 5, 6, 7, 8.	1¾-in. x 9, 10, 11, 12, 13, 14, 15, 16, 17.
¾-in. x 3, 4, 5, 6, 7, 8, 9, 10, 11, 12.	2 -in. x 10, 11, 12, 13, 14, 15, 16, 17, 18.
⅞-in. x 4, 5, 6, 7, 8, 9, 10, 11, 12.	2½-in. x 12, 13, 14, 15, 16
1 -in. x 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.	3 -in. x 16, 18, 20, 22.
1⅛-in. x 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.	

One in a Crate

‡BOLT CASES



Octagon Shape; Made of Selected White Pine, Varnished; Metal Drawers with Wood Fronts; White Porcelain Knob on each Drawer; Top part revolves on Base

The Drawers are all provided with Stops to prevent their removal from the Case. Each Drawer holds a Package of Bolts or Screws of the Size and Number indicated on the front of the Drawer.

Each

‡No 18C—88 DRAWERS; Height of Base 18 in.; Height over all 60 in.; Size of Base 31x31 in.; Size of Top 38x30 in.; Weight each about 250 lbs. $76.00

‡No 19C—104 DRAWERS; Height of Base 20 in.; Height over all 65 in.; Size of Base 31x31 in.; Size of Top 38x30 in.; Weight each about 300 lbs. $84.00

No. 1 BOLT CASE Contains Drawers labeled for following sizes of Bolts:

Tire Bolts.

3/16-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
¼-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
⅜-in. x 2, 2¼, 2½

Carriage Bolts

¼-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
5/16-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 5¾, 6
⅜-in. x 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 5½
7/16-in. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
½-in. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12

No. 2 BOLT CASE Contains Drawers labeled for following sizes of Bolts

Tire Bolts.

3/16-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
¼-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
⅜-in. x 2, 2¼, 2½

Carriage Bolts.

¼-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
5/16-in. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 5¾, 6
⅜-in. x 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 5½
7/16-in. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½.
½-in. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12

One in a Crate

We carry heavier stocks and a more complete assortment than is shown by any other house

This gives YOU the advantage of OUR having the goods when you want them

The best assortment of goods shown in America is at your disposal.

‡NAIL BINS

FURNISHED WITHOUT SCALE.

Each Section contains 6 Bins made of annealed Sheet Steel, with Protected Fronts, Preventing Nails Falling on Floor. Bins are Hand Riveted; Each Section Operates Independently of the other, on Finely Adjusted Ball Bearings; Each will hold 100 Pounds Nails, Bolts or Rivets.

Each

‡No. 23—3 SECTIONS; Height over all 34 in.; Diameter 48 in.; Weight each about 250 lbs. $70 00

‡No. 24—4 SECTIONS; Height over all 50 in.; Diameter 48 in.; Weight each about 300 lbs. $82 00

‡No. 25—5 SECTIONS; Height over all 62 in. Diameter 48 in.; Weight each about 350 lbs. $95 00

‡SPRING BALANCES

Each

No. NB—Spring Balance with Scoop for Nail Bins Nos. 13, 14 and 25; Can be attached to Top Section and Arranged to Raise or Lower to any Section by the use of a Chain; Capacity 20 lbs.; Weight each, complete with Scoop, about 10 lbs. $14 00

One in a Crate

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

ANVILS

VULCAN BLACKSMITHS'

Nos.	4	5	6	7
Weight Each, Lbs.	40	50	60	70
Each	$8.50	9.50	10.50	12.00

Nos.	8	9	10	11	12	13	14
Weight Each, Lbs.	80	90	100	110	120	130	140
Per Pound	$0.16	.16	.16	.16	.16	.16	.16

The face of these Anvils is one solid piece of English tool steel, welded to the body of anvil, accurately ground and tempered. The horn is covered with and its extremity made entirely of tough untempered steel. The body is made from best Lake Superior Charcoal Iron.

ANVILS

SWEDISH SOLID STEEL

Blacksmiths'

Weight Each, Lbs.	80	90	100	110	125	140
Per Pound	$0.19	.19	.19	.19	.19	.19

Weight Each, Lbs.	150	160	175	200	225	250
Per Pound	$0.19	.19	.19	.19	.19	.19

These Anvils are made in Sweden of solid steel. The steel is made from the famous Dannemora ore, long recognized as the finest steel-making ore in the world. They are made in **One Solid Piece**, with a tempered face. As there are no welds there is no face plate to crack, come loose or separate, and they cannot break at the waist. The face has no soft spots and its edges do not chip off.

PETER WRIGHT

Blacksmiths'

	Per Pound
80 to 350 Lbs.	Base, $0.22½

These Anvils are warranted and are made by Peter Wright & Sons, Stowbridge, England.

BELLOWS

HAND

Width, Inches	6	8	10	12
Weight Per Dozen, Lbs	15	20	30	40
Per Dozen	$13 50	14.40	18.00	22 00

These Bellows are made of light weight kiln dried lumber and are covered with sheepskin leather. They are neatly designed and taper to a long pointed nozzle. The woodwork is finished in an unusually attractive manner.

MOULDERS'

Width, Inches	8	10
Weight Per Dozen, Lbs.	30	40
Per Dozen	$24.00	30.00

These Bellows are made of straight grain kiln dried lumber. The boards are fastened together with a steel hinge which relieves the leather from all strain. They are covered with specially selected heavy sheepskin leather. The nozzle is made of galvanized iron and is reinforced to hold its shape.

BLACKSMITHS' STANDARD

Width, In.	30	32	34	36	38	40
Length, In.	43	46	50	55	59	63
Wt. Each, Lbs.	50	55	65	70	80	90
Each	$11.00	12.00	18.50	15.00	17.00	19.00

Blacksmiths' Extra Long

Width, Inches	34	36	38	40
Length, Inches	59	64	69	72
Weight Each, Lbs.	75	85	90	95
Each	$16 00	18.50	20.00	22.00

These Bellows are constructed of kiln dried lumber and are covered with a good grade of heavy cow hide split leather.

FIRE POTS

POWERS' PATENT

Each

Powers' Patent—12x12x3½ in. Bowl, Cast Iron **$3 00**

This Fire Pot can be used on any common Tuyere Irons. It prevents the fire from spreading too much and produces a compact bright heat; reduces the quantity of coal required and protects the Tuyere Iron.

Weight Each 24 Pounds

TUYERE IRONS

DUCK NEST

SINGLE

Per Dozen

No. 1 Single Face, Weight Each 11 Lbs. . . . **$15 60**

DOUBLE

Per Dozen

No. 2—Double Face, Weight Each 17 Lbs. . . . **$18.00**

NORTON'S

Each

Norton's—Weight Each 27 Lbs. **$3.00**

The cinders and ashes may be removed by drawing out the small rod which opens the slide. The levers and spring are readily changed to either side for right or left hand use. To regulate the blast, turn the large rod.

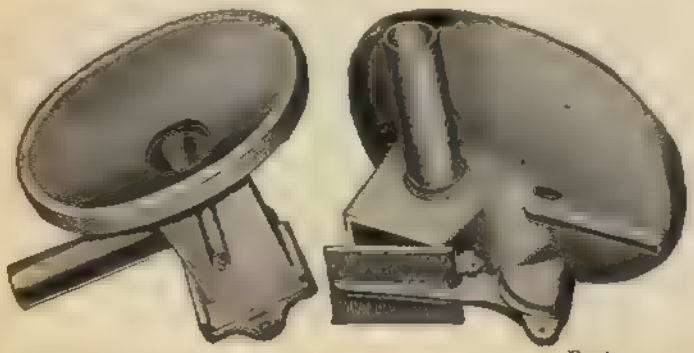
WARREN'S

Each

Warren's—Weight Each 31 Lbs. **$4 00**

The blast is regulated by simply revolving the ball, which has three unequal sides. Open the bottom valve, and all cinders and ashes drop out.

SUTTON'S

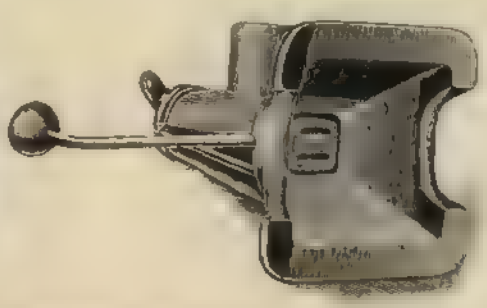


Each

Sutton's Weight Each 44 Lbs. **$5 50**

This Tuyere has the fire bowl cast with the Tuyere. It is made of the best Dunbar pig metal, and will prove the most durable Tuyere that can be placed in any forge. The fire cannot spread. Owing to the shape, the fire will keep clean and bright at all times. Ashes do not blow. There is a saving of expense in time of building in with clay and mortar.

ROYAL MAMMOTH



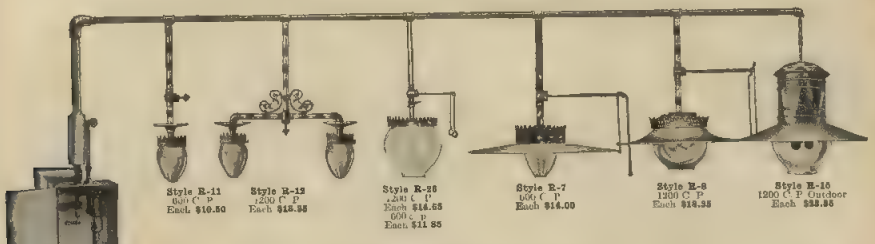
Each

Royal Mammoth 14x14½ in. on Outside of Top Flanges, 9x11½ in. Inside, 4 in. Deep, 3 in. Diameter Inlet, Weight Each 77 Lbs. . . . **$6 00**

Equally adapted for light and heavy work and requires no clay. It has a ball valve which gives both a side and center blast. While made for use with the Royal Blower, it will give perfect satisfaction anywhere it is used with a strong blast.

The Famous "Arcolight" System

12 Years' Constant Service Has Failed to Develop a Weak Point



Style R-11 600 C. P. Each $10.50 | Style R-12 1200 C. P. Each $15.35 | Style R-26 1200 C. P. Each $16.65; 600 C. P. Each $11.85 | Style R-7 600 C. P. Each $14.00 | Style R-8 1200 C. P. Each $18.35 | Style R-16 1200 C. P. Outdoor Each $32.35

Prices on all Lamps Include Equipment Complete with Two Foot Drop

Permitted by All Insurance Underwriters and Fully Guaranteed.

Recognized as the Most Efficient and Economical System of Lighting on Earth

For those who prefer a pipe system, there is nothing made which is the equal of the well-known "ARCOLIGHT SYSTEM." Absolutely non-carbonizing, containing no asbestos, wicking or other packing, made of the highest quality brass and copper bronze, carefully tested and fully guaranteed. We take it back at our expense if not up to the high standard we claim for it.

The GENERATOR never contains over a teaspoonful of gasoline at any one time, it being immediately and constantly turned into the highest grade of illuminating gas, which is supplied to the lamps through galvanized rolled steel piping.

The light given is 600 candle power per mantle either upright or inverted; the cost for fuel is less than one-third cent per hour per mantle. Send a diagram with your order, marking points where lights are wanted; distance between each, and giving the height of your ceiling. Systems will be put up exactly as per your measurements and guaranteed to be as per your specifications. All systems are shipped complete and ready to set up, every section of pipe comes numbered, so there is no difficulty in connecting the correct sections, there being no soldering, cutting or fitting to do.

OUTFIT COMPLETE consists of generator, 5-gallon galvanized steel tank, brass pump, lamps, galvanized steel piping fitted with brass screw couplings, one elbow and all connections, wrench, wax taper holder and tapers, globes, mantles, etc., shipped carefully boxed and ready to install.

Special Offer No. NA—Two-light system, consisting of generator, 5-gallon rolled steel tank with gauge and powerful brass pump, two style R-11 lamps complete with 2 feet drop (from ceiling to bottom of lamps), lamps finished in oxidized copper; 35 feet galvanized rolled steel piping, fitted with brass screw couplings, one elbow and all connections complete, wrench, wax tapers, taper holder, full directions, etc., complete and ready to set up ..... $ 92.15

Special Offer No. NB—Same as No. NA, but with three Style R-11 lamps, with 2 feet drop, 55 feet of piping and all connections complete and ready to set up 110.60

Special Offer No. NC—Same as No. NA, but with four Style R-11 lamps, with 2 feet drop, 75 feet of piping and all connections, complete and ready to set up 129.05

If Style R-7 lamps are wanted on any of the above systems add each extra	3.50
If Style R-8 or R-12 lamps are wanted add each extra	8.05
If Style R-26 lamps are wanted on any of the above systems add each extra	3.75
If 10-gallon tank is wanted instead of 5-gallon tank add each extra	11.55
No. 97 half frosted globes for R-7, R-11 and R-12 lamps, per dozen	6.85
No. 66, Each $1.20, per dozen	20.00
No. 25, clear globe, for Style R-15 and R-26, each $1.60, per dozen	26.65
No. 52, Prismatic Shades, each $1.90, dozen	14.25
Arcolight upright mantles, per dozen	3.00
Inverted rag mantles, per dozen	4.45
No. 77 opal 18-inch shades for R-7 and R-4 lamps, each $2.20, per dozen	33.35
No. 88 shades for R-8 lamps, each $2.40, per dozen	40.00
Extra 1½-inch or 2-inch galvanized pipe, per foot	.30
Extra 1½-inch or 2 inch galvanized ells, each	.70
Extra 1½-inch or 2-inch tees, each	1.15
Extra 1½-inch or 2-inch crosses, each	2.10
Extra couplings, per pair	1.10

A New, Up-to-Date Line of Fancy Two and Three Light Chandeliers for Halls, Churches, etc.

Style R-27
2 to 6 C. P.
Each complete, $38.50

Style R-28
1800 C. P.
Each complete, $85.65

Rotary Lighting Switch and Headlight Dimmer

The Hartman Electrical Manufacturing Company, of Mansfield, O., has brought out a new automobile lighting switch which has several novel features. The switch is of the rotary type, with a positive stop at each lighting combination, so that in rotating the handle the driver can tell at night from the "feel" when it has reached any desired combination of lights. Ordinarily, the three vided are side-tail, head-tail and all-lights. A special combination combinations pro- is also made, which at the first step gives the left-side and tail-lamp, so that the car can be left standing at the curb with only one side lamp burning. This saves current and at the same time complies with the law. The switch is also made with a center push and pull button, for controlling an extra circuit, such as a meter lamp or an inside lamp for closed cars. The insulated base of the switch is arranged so that a junction ring can be attached, the screws used for attaching serving also to form the electrical connection between switch and junction ring. Terminals are provided on this ring for two wires from each lamp besides ignition, horn, etc. The use of this junction ring eliminates all soldering and splicing of wires and provides a firm electrical connection for every circuit.

Hartman Switch and Dimmer

The headlight dimmer furnished with the switch is constructed on a new and novel principle. With the Hartman dimmer, dimming is effected by changing from the parallel to a series connection, which gives half voltage at each lamp and cuts the current consumption in two. Change in connection is made by means of contacts mounted on the terminal ring and operated by the center push and pull button. When it is desired to dim the headlights it is merely necessary to pull this button out. With a dimmer of this kind the headlights can be used in place of the sidelights when the car is left standing at the curb, as the current consumption is only slightly in excess of the usual 4 c. p. side lights.

Reynolds-Browne Company, Michigan Avenue, Chicago, Ill., has trade-marked the name Arbeco and will sell its products under that name, which was secured from the initials of the two men in the company. The letter R was spelled Ar and the letter B, Be, and Co., for company, gives the last two letters of the word.

The Barnard Carbureting System

In order to supply a device which will carburete successfully such fuels as gas oil, tops, distillate, kerosene, etc., the Barnard Manufacturing Company, 3300 Maple Avenue, Los Angeles, Cal., has developed the system here shown.

The system is composed of a generator or gasifier together with a special design of carburetor. The gasifier is designed to heat the atomized fuel after it leaves the carburetor and in this way, it is claimed, a perfect combustible gas, which is a very high explosive, is made, giving great power and being free from any foreign production. The feature of this device is the heating of the mixture after it is mixed; the changes in weather conditions, altitudes or loads do not affect the smoothness of the motor running, it is said. The gasifier itself is a cylindrical brass casting containing many small tubes like a miniature boiler. To heat the gasifier, it is neces-

The Barnard Carbureting System installed on a motor.

sary to tap the exhaust pipe, attaching a flexible metal tube to the gasifier and passing about 20 per cent. of the exhaust gases through it. In connection with this low-grade system, it is necessary to install an auxiliary priming tank which holds about a quart of gasoline. To start the engine requires only a few drops of gasoline, just enough to heat the gasifier, and a few revolutions do this.

The manufacturers state that any fuel which can be used on a hydro-carbon engine can be used without any detrimental effect on the motor, provided that the carburetor is properly adjusted. The prices vary with the size, the 1-in. size being listed at $45 complete and installed.

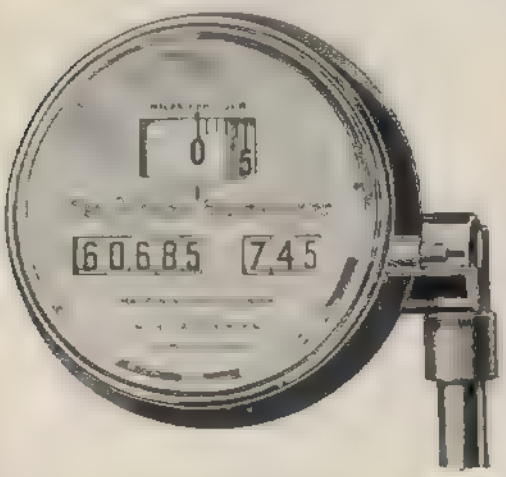
Perpetual Spark Plug Company, 330 East Drinker Street, Dunmore, Pa., announces change in the name of its plugs, which have been named the "Eze-Kleen." These plugs were formerly known as the "Blue Head" spark plugs.

The Van Sicklen Air-Driven Speed-meter

The Van Sicklen Speed-meter, manufactured by N. H. Van Sicklen, Aurora, Ill., departs in many respects from the various accepted practices in the manner of its construction in that it operates by air and is so constructed as to be extremely legible. The speed dial is the floating type. The figures indicating speed are large, plain and staggered, the cipher and all even figures being placed below the center of the exposed portion of the dial, while the five and all other odd figures are placed slightly above the center to eliminate confusion.

All rotary dials are lithographed on a dead white enameled surface. The figures on the odometer are ¼ in. full face. These dials are prepared in the same manner as the speed dial and indicate mileage to 100,000, operating in steady progression, instead of snapping into place.

The trip portion shows 100 miles by tenths, miles in black, tenths in red. Figures on the trip dial register in steady progression, same as the season registers. The tenth dial may be set on a full tenth or any fraction thereof and begins operating from the point at which it is set im-



The Van Sicklen Speed Meter. Operates by air.

mediately without loss of motion. The dial is claimed to be steady and not affected by the undulation or rough roads, etc., nor by extremes of temperature or climatic or elec Merrill, as is shown by the accompanying illustration.

Our cut of the complete instrument shows the mounting ring used where the instrument is assembled on an automobile, and with this one exception it is identical with the instrument used for motorcycle purposes. The instrument as illustrated shows a white face with black lettering and a nickel bezel. This latter may be in black enamel if desired. The resetting of the trip odometer is accomplished by the use of a screw chuck specially constructed for this purpose, and when locked prevents possibility of incorrect registration.

The method of drive for motorcycle purposes consists of a deep "V" grooved pulley attached to the spokes of the front wheel, from which point to a similar pulley at the end of the flexible shaft the power is transmitted by an endless wire belt. The bottom of the groove in the pulley used for transmitting the power is hobbed to the same pitch as the coil of the belt.

G-A Ball Bearing

G-A Radial and Thrust ball bearings are manufactured by the German-American Manufacturing Company, 342 N. Sheldon Street, Chicago, Ill. These bearings are made in the regular standard sizes and are interchange able with other makes.

G-A Radial and Thrust Bearing and the Retainer

Both inside and outside rings are made of an imported high carbon chrome steel and are oil hardened by a special process through which a uniform density and hardness is obtained. The curvature of the ball raceways exceeds that of the ball used by from 5 to 10 per cent., dependent on the sizes and series, and its great depth allows of a greater percentage of thrust load in conjunction with the radial load carried, which is found to be decidedly advantageous in axle construction.

The imported Hoffman Steel Balls are used and are contained and separated in a patented steel retainer which is used in all sizes, and allows of a maximum number of balls in each bearing. This retainer is said to be indestructible, and to so completely cover the space between the rings that all destructive matter such as dirt, steel chips, filings, etc., are entirely excluded, thus adding to the life of the bearing.

New Rochester Motor

Rochester Motor Company, Rochester, N. Y., has added a six-cylinder mono bloc motor to its line. It will be 3 9-16 in. bore and 5 in. stroke of the L-head type and fitted with Tungsten valves. Accessibility has been the manufacturer's aim.

The Carter Piston Valve Motor

A new type of four-cycle internal combustion motor is just being announced to the trade by the Model Gas Engine Works, of Peru, Ind. The novelty of this motor lies entirely in the valve mechanism, and from the top of the power piston down does not differ from the ordinary motor of the poppet valve type.

The advantages claimed for this new design are absence of noise, less vibration, quicker valve opening, no regrinding of valves; greater piston speed and greater economy.

Operation and Construction.

The motor has a bore of 3¾ in. and a stroke of 5¾ in. The cylinder is bored straight through as shown. The second piston is fitted into the head of the cylinder. This piston is fitted with three compression rings for holding the compression similar to the power piston. On the extension at the bottom of this piston are fitted two expanding rings A A. These close the intake port C and exhaust port D and take the place of the poppet valve. The upper piston is operated by means of a cam shaft and cams E, E, F, similar to that of a poppet valve. The cam shaft is placed across the top of the cylinders, both the cylinders and the pistons being slotted to receive same

The upper piston is provided with an ordinary piston pin G and roller H, the latter coming in contact with center cam F. The bridge I across the top of this piston has contact with the two outside cams E, E.

The outside cams are duplicates and are so ground that they are in contact with the bridge at all times, while the center cam F is in contact with the roller H at all times. These cams are so ground that each movement of the upper piston corresponds to that of the poppet valve.

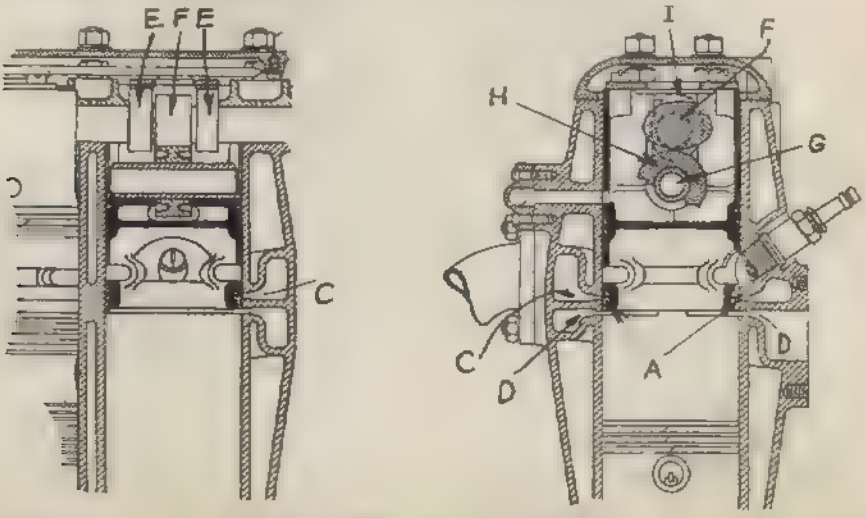
Intake and exhaust ports extend entirely around the cylinder with the exception of a small space for the split of the expansion rings.

Drawing shows exhaust port open and piston on the exhaust stroke. At the beginning of the suction stroke, the cam F moves the upper piston down until the intake port C is open, which at the same time closes the exhaust port D. At the end of the intake stroke, and at the beginning of the compression stroke, the upper piston moves upward ¼ in. or only half of the entire stroke so that rings A, A, close both intake and exhaust ports. The piston remains in this position during the compression and working strokes. Near the end of the working stroke, the upper piston again moves ¼ in. upward until the exhaust port is fully opened as shown on drawing.

The movement of the upper piston at no time exceeds ¼ in., while the total movement in either direction is ½ in., the complete movement taking place with two revolutions of the motor. In a motor with a 6-in. stroke, the working piston movement is exactly twenty-four times that of the upper piston.

On the suction stroke, the vacuum is sufficient to draw the upper piston after it to its desired position, the cam serving as a stop or timing of the movements. On the return of the compression stroke, the compression tends to lift the upper piston, the cams again serving as a stop and holding it in right position.

It will be noticed that at no time the valves open against pressure so that whatever wear there is on the cams, is on the heel or part receding from the corresponding wearing surface.



Sectional Views of the Carter Motor.

The illustration on the left shows a longitudinal view through the center of the cylinder An end section is shown on the right. For explanation of reference letters, see text.

The Imp Light Delivery Car

The Imp cyclecar, which was brought out recently by the W. H. McIntyre Company, of Auburn, Ind., has been fitted with a body, which makes it suitable for light delivery purposes, the capacity being from 250 to 300 lbs.

The motor is two-cylinder, the cylinders being set at 45 deg. with mechanically operated valves. The manufacturer states that it will develop 10-15 h. p. The hood is so shaped that the air is deflected around the cooling fins on the cylinders. The carburetor is a standard float feed type with compensating air valve. Ignition is a magneto dual system. A piston pump circulates the lubricating oil. The motor is started by inserting a detachable crank in the center of the steering wheel. This crank connects through the steering column with a ratchet on the crankshaft through three to one bevel gears. Motor compression is released during cranking

Four speeds forward and reverse may be had in the friction transmission. The driving disc is a special alloy; the driven has a compressed paper ring held between two metal flanges. The bearings are self-contained annular ball type. An exceptionally long V-belt connects the crank shaft pulleys and those on the rear wheels. No differential is used, the belt being considered as a compensator.

Two transverse springs are mounted on the underslung body at each end. These springs are utilized to keep the wheels true and no axles are used. As a brake, a hardwood V-block attached to a lever on the radius rods and controlled by a pedal is pressed into the rear pulley grooves. Wire wheels are used with tangent spokes. The rear belt pulley is riveted direct to the rim. Hubs have adjustable self-contained ball bearings. Tires are 28 x 2½ in. standard clincher, front and rear.

Steering is accomplished by a rack and pinion mounted at the forward end of the almost horizontal steering column. A 14-in wheel is provided. The wheelbase is 100 in., the tread, 36 in The body dimensions are—height, 42 in.; width, 26 in., and length, 26 in. It weighs 600 lbs., and can develop 30 m. p. h. It is listed at $395

The Imp Light Delivery Car.
Two cylinder, 45 deg. motor. Friction and belt drive. Capacity, 300 lbs. $395.

Motor Tractors Saved Kansas

The wheat crop of not less than 2,000,000 acres of western Kansas land is directly credited to the high development of automobile tractors and agricultural implements, in certain computations put out in Kansas by competent authorities. According to these students of the situation the acreage cultivated in the State this year would have been less than 5,000,000 had not the practicability of the traction engine as a plow puller been established. Kansas could not possibly have plowed and sowed her usual 7,000,000 acres if it had not been for the power plowing outfits. There were not sufficient horses to do the plowing when the rains came.

Traction engines and motor trucks are doing the work that formerly 80,000 horses and mules on the Kansas wheat farms did

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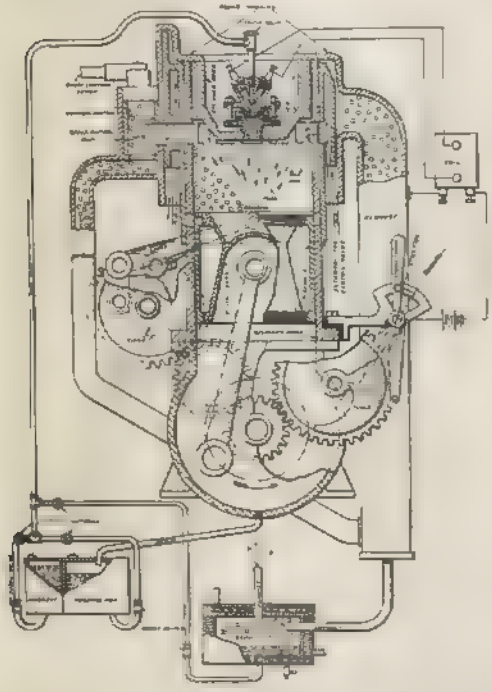
Canadian Standard Auto & Traction Company, of Moose Jaw, Saskatchewan, has gone into voluntary bankruptcy. L. W. Pilliod has been appointed receiver. Liabilities are stated to be about $30,000

The Tismer External Concentric Valve Engine

This is a new type of engine which has no carburetor, intake pipe or artificial cooling system. It is claimed to start cold on kerosene and to burn successfully any low grade fuel, even waste tar, when the motor has heated up.



Sectional View of the Tismer E. C. V. Engine.

Two fuel tanks, one for kerosene, to start on, and the other for a low grade fuel, are provided. Fuel feed to the engine is by suction, with valves in the line to control the amount of fuel. The fuel enters the top of the cylinder, passing over the two spark plugs while entering and thus being ignited. A special timer is fitted so that during running the ordinary brief spark is supplied, and during starting, a spark lasting during the entire compression stroke. The external valve is actuated by a lever which is operated by a double cam, no spring being used. The ports in the valve and those in the cylinder are made to coincide at the proper times. There are auxiliary ports near the bottom of the piston to rid the cylinder of spent gases quickly and admit new air. The piston has no rings. Throttling is effected by means of a port on the side of the cylinder, inducing cooled exhaust gases into the cylinder to reduce the speed. When the motor has not attained its effective heat and low grade fuel is being used, the fuel is not entirely burnt, and for this reason a condenser is fitted on the exhaust line. The condensed particles are led to the fuel line and reburned. It is being placed on the market by P. G. Tismer, 32 West Street, New York City.

The Johns-Manville Spark Plug

The Johns-Manville Company, 41st Street and Madison Avenue, New York City, recently took over the manufacture and distribution of the Mezger soot-proof spark plug, which will be known hereafter as the J-M (Mezger) soot-proof spark plug.

This plug, as the cut shows, has a double chamber, one between the center electrode and the porcelain "petticoat," and another between the petticoat and the shell. By this construction, it is claimed, that when the plug soots up, the path of the soot, which the current would attempt to follow instead of jumping the air gap, is so long that it has a greater resistance than the air gap and consequently the current must jump the air gap and produce the spark at all times. These plugs are listed at $1 each.

Sectional View of J M Spark Plug.

The Oshkosh Pneumatic Wheel

The Pneumatic Hub Wheel Company, Oshkosh, Wis., is manufacturing a new wheel for automobile, illustrated herewith. A hub which will fit any car axle is used. This hub forms the inside of an aluminum spider, which extends about halfway from the hub to the rim. The outside of the spider is shaped to receive two pneumatic tires of the "Aero" type. On the outside of these tires are the short felloes and the wheel rim, which carries a solid tire on its periphery.

Sectional View of Oshkosh Pneumatic Wheel.

It is said that one pneumatic tire is sufficient to carry the load; but if both tires are put out of commission, provision has been made to lock the floating rim to the hub by several bolts. By removing six bolts on either side of the wheel it may be parted in the middle and the tires may be inspected or replaced. This wheel is claimed to ride as easy as the regular pneumatic tired wheel and to last longer and to eliminate tire trouble.

The Kemco Fan Generator

Kouyoumjian Electric & Manufacturing Company, Cleveland, O., is manufacturing the Kemco fan generator, illustrated herewith. It consists of a compact cylindrical generator, mounted on the fan bracket, forming a new hub for the fan, and driven by the regular fan belt. It is claimed that the generator causes practically no loss of efficient fan blade area.

Kemco Fan Generator Mounted on Packard Car.

This machine differs from the ordinary practice in that the field remains fixed in the center, while the armature revolves. Round carbon brushes, which the manufacturer says will give service for 50,000 miles without change, are used. The generator starts charging at a motor speed of 400 r. p. m. and reaches its maximum at 1200 r. p. m. The machine is claimed to be water, dust and oilproof. The equipment includes an automatic cutout on the dash and an ammeter; by means of this ammeter any slipping of the belt and consequent imperfect cooling action is indicated as well as the electric output.

The Jones Autolog

A new device which is attracting attention in this country and abroad is the Autolog, made by The Jones Speedometer Company, of New Rochelle, N. Y. The Autolog is a recording device which registers by means of a graph on a circular chart just what movements the car has been put through during the day. It gives a graphic record of how long the car was run, the time of day when it was run, the speed at which it was run during any period, and the periods of idleness.

A reliable thirty-hour clock movement operates a chart in the Autolog and causes it to make a complete revolution twice during twenty-four hours. The graph mechanism, or marking pencil, is governed entirely by the speedometer driving gear, and operates only when the car is in motion. The motion is a simple backward and forward movement corresponding to the speed of the car. Thus, if the speed is accelerated the movement will be correspondingly increased with the result that the markings on the chart will show more closely. The resultant angles will be more acute as the speed increases, and more open as the speed decreases. Each stroke and return of the pencil corresponds to a half mile, or a mile of travel, scales being supplied to give either half-mile or mile readings. The

The Jones Autolog.
A combination of speedometer and recorder.

former are for vehicles whose speed does not exceed 30 m. p. h., the latter for cars up to 60 m. p. h. It follows that the number of these strokes, i. e., complete angles contained within any given space of time on the chart, will show at once the distance traveled and the speed used during this period of time.

While the car is idle the pencil remains stationary, and under the action of the clock mechanism the chart continues to revolve. The result is a plain circular line on the chart corresponding to the time during which the car remains stationary.

Page Fence Plant, at Adrian, Mich., is going into the manufacture of automobile accessories on an extensive basis. There have been contracts for 40,000 wind shields closed, and their manufacture will commence at once.

The Muir Carburetor

The latest addition to the carburetor field is the Muir Single Jet Carburetor shown in the accompanying illustration. Its chief feature is the simple mechanical relation established between the members governing the flow of air and gasoline.

The stem of the auxiliary air valve is continued in the form of a cam to engage the gasoline needle, and the contour of this cam is determined by actual experiment with the engine running on the block;

Sectional view of Muir Carburetor. Reference to the letters will be found in the text.

a special measuring instrument is applied to the carburetor under test by which micrometer readings are taken of the opening of this auxiliary air valve. Another instrument measures the lift of the gasoline needle; many readings are taken at all speeds. These two members are adjusted by hand to the positions indicated for the most economical operation. These results are plotted, and the curve so obtained is reproduced on the cam in the exact shape necessary to produce automatically the same conditions.

Referring to the cut, C is the fuel nozzle, D fuel needle valve, pressed upward against the face of the cam or away from nozzle C by spring M; I is a hardened pin (or roller) in contact with the hardened nickel steel face of the cam H which controls the lift of needle valve D. In operation, as throttle T is opened the measured demand of the engine pulls air valve G against the resistance of spring K from its seat and in proportion to the lift of air valve G, cam H is moved to the right, allowing spring M to raise gasoline needle valve D the distance necessary, it is stated, to keep the ratio of fuel to air constant for minimum consumption, smooth acceleration and increased power, furnishing the engine at all speeds, regardless of the load conditions, a continuous and accurately proportioned and properly composed mixture of air and gas.

To compensate for any great change in temperature or density of fuel a slight adjustment of needle valve D is provided for in screw E. Turning this screw up gives more gas and turning it down gives less gas throughout the entire range of engine speeds. In starting, choke throttle N carrying cam P holds air valve G to its seat, to create a greater suction at C for priming the engine. When the engine takes up its work, torsion spring L returns choke throttle N and air valve cam to open position.

The Muir carburetor is simple in design, with but few parts, and is made with the throttle in either cross or straight position. The Muir Company, Inc., of Baltimore, is the maker, and Castle & Monson, of Detroit, Mich., the factory distributors.

A New Priming Device

The primer, here depicted, is designed to start the motor and run it for a short time during cold weather. It weighs less than 4 lbs., and consists of a small tank placed on the dash under the hood, and filled with high test gasoline, and provided with an auxiliary carbureting device so proportioned as to carburete, in the coldest weather, the slow current of air that flows while the

Brown-Maddock Primer Installed on Four-Cylinder Car.

engine is being turned by hand. After the needle valve has been adjusted, the device cannot flood the cylinders.

The device is controlled by a push button on the dash, within reach of the driver's foot, and by a wire passing through the radiator. The gasoline is conducted from the tank to the intake pipe by means of a ⅜ in. copper pipe. To use the starter, after throwing off the switch, the primer button is pushed in and held there until the motor stops, leaving the cylinders charged with gas that will not condense. When the motor is to be started, the charge left in the cylinders will make starting easy. Brown-Maddock Company, West Newberry, Mass., is the manufacturer.

New Bosch Key Switch

The regular Bosch spring plunger and key switch has been superseded by the Bosch press button key switch, here illustrated. This switch is very simple in construction. A wire, connected to the rear of the switch, is attached to the grounding connection of the magneto. A second wire is attached to the terminal of the collar clamp and is led to some good grounding position on the frame.

New Bosch Key Switch.
The round, knurled key shown in place is the regular equipment. The regular headed key may be had if desired.

When the button key is inserted and turned in either direction until it snaps into position, the connection between the magneto and the ground is open; when pressure is placed on the key, or it is removed, a connection is made, which grounds the magneto and makes it inoperative. The switch may be placed on the dash to be operated by hand, or on the floor to be operated by foot. It is furnished in nickel finish only and is listed at $1.50. The regulation flat head key may be obtained instead of the button key, or can be had at 10 cents additional.

The Master Carburetor

This new device is the invention of Harry Miller and Frank Adamson, of Los Angeles, and is being manufactured in standard sizes by the Master Carburetor Company, 922-24 Los Angeles Street, Los Angeles, Cal. It is designed to thoroughly carburete the comparatively heavy fuels that are being marketed today and also to make provision for the heavier fuels of the future.

There are three moving parts: the float action, the rotary throttle and the graduated air damper. On the bottom of the float chamber, a fine mesh screen, is fitted. Any particles of dirt which will pass through this screen will also pass through the fuel distributor; in this manner it is made impossible for the fuel passage to become clogged. The fuel is led by means of a small tube from the float chamber to the fuel distributor, which is a small tube extending transversely all the way across the air passage and provided with series of minute openings. By means of the rotary throttle, the holes in the fuel distributor are uncovered in numbers proportionate to the desired speed; since the distributor is located right in the air passage, the manufacturer claims the fuel is thoroughly vaporized and carried to the intake pipe. The air can be positively regulated by means of the graduated air damper controlled from the steering column.

Phantom View of Master Carburetor.
Note the gasoline distributor with the minute perforations extending all the way across the air intake.

Lightning Vulcanizing Outfit

H. J. K. Company, 26½ Canal Street, Dayton, Ohio, is placing on the market the Lightning Vulcanizing Outfit. It consists of a large bottle of solution, fifteen assorted patches, one roll of rubber, one tube of cement, one brush for application of solution and two pieces of sand paper. It is listed at $2.50. Punctures, etc., are repaired by covering the hole with cement, laying in a piece of rubber and finishing with the solution.

By using the trucks the parcels are picked up in the usual way and the trucks start for Philadelphia. When it is reached the trucks leave the parcels at the final destination with but two handlings instead of four, and the parcels are thoroughly protected from the elements by the side and back curtains and reach their destination in better condition than by the old methods. Sometimes packages have to be delivered to other expressmen at the general offices, but even in this case two handlings are eliminated by the new method.

The trucks then gather the loads for the return trip and start back usually at 3 P. M. If the stores are open when the trucks reach Chester, the goods are delivered that night, but if the stores are closed the parcels are left in the truck and delivered from them the first thing in the morning.

A large touring car chassis is being fitted with a light body. With this many of the light parcels will be collected for delivery to larger trucks. This truck will aso take a load of light packages to Philadelphia and be used there in collecting light articles. This will greatly relieve the two large trucks and will permit operating them upon a more fixed schedule.

The trucks are calculated by Mr. Lewis to cost $15 each per day; this price includes everything necessary for operation, repairs and depreciation. The trucks have caused an increase in volume of business of about 66 per cent. in the three years they have been operating, against about twenty years by the old methods.

Signal 1500-lb. Motor Truck

The Signal Motor Truck Company, Detroit, Mich., is manufacturing the new Signal 1500-lb. truck. In this truck standard units are used. Only one model is being built.

The Motor.

The truck is powered by a Continental motor placed under the hood in front. It is four-cylinder, four-cycle, water-cooled, 3¾ in. bore and 5¼ in. stroke, cast en bloc. Lubrication is by the splash system, with circulation by pump. A Bosch high tension magneto, with fixed spark, is used for ignition. Cooling is effected by a McCord radiator, with fins on the vertical tubes and cast tanks and a centrifugal circulation pump. A fan is fitted as an auxiliary. A Stromberg truck type carburetor is used. The three main bearings are adjustable and 1¾ in. in diameter. Crank pins are 2½ in. The valves are enclosed

Clutch and Transmission.

The clutch is a Hartford pressed steel cone, 16 in. diameter and 3 in. face. Small springs are placed under the leather to permit easy engagement. Ball thrust bearings are used. Power is carried from the clutch to the transmission by a Hartford block and trunnion type shaft, with two leather-cased universal joints. The shaft is 1¼ in. alloy steel.

A Covert selective sliding gear transmission is used. It gives three speeds forward and one reverse. Gears and shafts are nickel steel, heat treated. The shafts are mounted on Hyatt roller bearings.

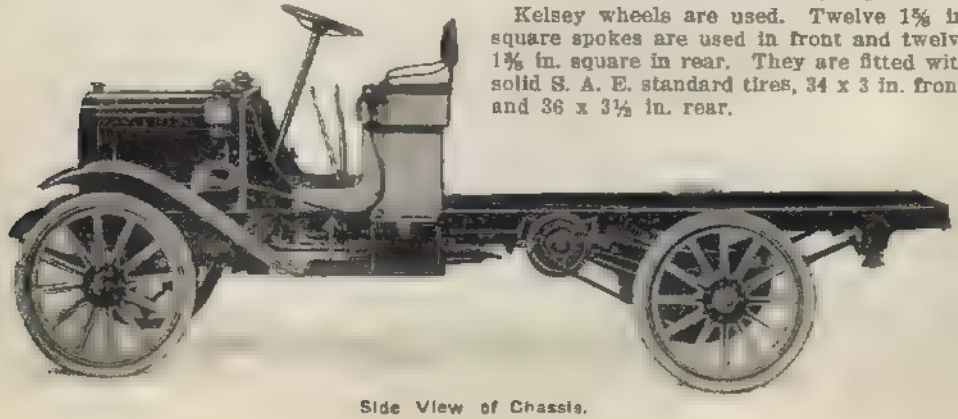
Drive.

The jackshaft is attached to the rear of the transmission. It is Russel bevel gear type, with alloy steel gears and shaft, carried on Hyatt roller bearings. The side chains are Culver-Taylor, 1¼ in. pitch, ¾ in. roll and ⅝ in. wide.

Both axles are Sheldon manufacture, with Standard taper roller bearings. The rear is 1½ x 2¼ in. rectangular with 1⅝ in. spindles. The front is 1½ x 2½ in. I-beam section.

Wheels, Brakes and Springs.

Kelsey wheels are used. Twelve 1⅝ in. square spokes are used in front and twelve 1⅝ in. square in rear. They are fitted with solid S. A. E. standard tires, 34 x 3 in. front, and 36 x 3½ in. rear.



Side View of Chassis.

Truck Especially Adapted for Mine Rescue Work

The United States Bureau of Mines, Department of the Interior, Pittsburgh, Pa., has secured a new specially designed motor truck of 3000 lbs. capacity. The machine is now in service at the headquarters in Butler Street, awaiting a call for assistance. The automobile was built for the Bureau by the White Company, Cleveland, O. The truck is very completely equipped, carrying all that might be needed at the time of a mine disaster.

White Truck Used by United States Bureau of Mines

The car, in fact, is a veritable hospital, carrying every piece of portable equipment that is known in mine rescue work, for the quenching of flames, resuscitation of the unconscious and the administering of first aid to the injured.

Included in the equipment are two pulmotors, six oxygen tanks, fifty regenerators, one oxygen pump, two stretchers, one life line reel, lanterns, a tent, fire extinguishers, and a full complement of tools, hose, axes, saws and medical supplies. The equipment goes so far even as to include a bird cage and a canary, these being used in detecting poisonous gases in mine shafts.

The truck is built with a special place for everything, and each article must always be in that place, as it is absolutely necessary to have instant access to all of the materials. To this end the entire carrying space, except the places for the doctors and patients, consists of compartments of varying sizes and odd shapes, nearly all opening on the outside, with snatch hooks.

Under the driver's seat are ten Draeger trucks, enclosing apparatus for reviving victims of mine disasters. Six oxygen tanks are carried beneath the body on a specially built subframe and cradle, the tanks lying crosswise of the truck so that they can be taken out quickly when needed.

In back of the upholstering of the seat there are also hooks for a five foot crowbar and tent poles. Immediately in back of the seat and extending to the underside of the roof there is a series of compartments with doors on each side of the truck. These compartments carry one tent, 22 ft. of hose, three miners' picks, three miners' shovels, one 4-lb. sledge hammer and two hand axes.

In back of the compartment there are two lengthwise seats fitted with folding lazy backs and protected by a railing. Beneath the seats on both sides are compartments opened from the outside. Under the rear steps there is another compartment hung from the rear end of the frame, with a false floor, a drawer beneath and doors on each end of the main compartment. The latter contains two pulmotors and fifty regenerators, while the drawer takes care of two saws, 200 ft. of half inch rope, a box of hose couplings, reducers, spanners and the like.

The central compartment along the sides of the body contain one life line reel, one telephone box and an assortment of compasses, braces and bits, chisels, hacksaws and blades and snatch blocks. On the outside of the body, suspended on specially designed hooks and clamps, are two stretchers, one 3-gal. fire extinguisher, two fire department axes and two fire department lanterns. Two special boxes are built on the running boards to accommodate a large number of mine lamps and smaller boxes are built on the rear wall of the front compartment to carry two first aid boxes and a pump

Decision Upholding Validity of Canfield Patent Puts Mosler in Commanding Position in the Spark-Plug Field

The decision handed down in the United States Court of Appeals on November 11th, in the case of A. R. Mosler against John Lurie, proprietor of the Automobile Supply Company, New York City, for selling spark plugs which were alleged to infringe the Canfield patent owned by A. R. Mosler, established beyond any question of doubt the validity of the patent, but denied to Mosler any accounting for past profits or damages, because of the neglect for many years by the successive owners of the patent to notify infringers.

The Canfield patent covers a spark plug in which the electrodes are located in recesses or chambers of certain shape and proportions; the object of these recesses being to form an air pocket which prevents the accumulation of carbon on the sparking points.

This patent was allowed October 18, 1898: the inventor died in 1899 and the patent was assigned in 1901 to his brother, who assigned it in 1903 to E. D. Wheeler, who in turn assigned it in 1906 to the Association Patents Company, who in turn sold it to A. R. Mosler, on March 25, 1909.

The present suit was begun in September, 1909, and in the lower court the decision was against Mosler. The Court of Appeals, however, reversed the decree of the lower court, dividing the costs equally between the complainant and the defendant, and denying any right for accounting or damages.

The patent has two years more to run, and W. A. Redding, attorney for A. R. Mosler Company, states that the rights under the patent will be closely guarded. It is expected that the Mosler Company will license other spark plug manufacturers for the rest of the term of the patent, as one or two makers have already been licensed The spark plugs which were in question in the suit were those made by the C. A. Mezgar, Champion Ignition Company, American Coil Company, Rajah Supply Company, and the Standard Auto Sales Company.

Statement of Paige-Detroit's Quarter

At a meeting held on its fourth anniversary, a financial statement of the Paige-Detroit Motor Car Company was drawn, covering business done during the preceding quarter, showing the actual rate of increase over the same period of the previous year. This statement showed a net cash increase of $1,200,000 for this quarter. The company will occupy its new building at Fort & McKinstry Streets on December 1st. This is one of the largest automobile factories in the country

International Motor Company's Situation Improves

The International Motor Company, New York City, maker of American and Saurer motor trucks, which had proposed to borrow $1,200,000 additional capital, but was held up by the minority stockholders bringing suit to secure an injunction to prevent the borrowing of this additional capital and also to secure the dissolution of the company on the grounds of fraud in the acquisition of the Saurer Company, first secured the dissolution of the injunction, with the proviso that it file a bond of $50,000 to indemnify the minority stockholders against loss, pending the trial of the action for dissolution of the company, but on November 20th the judge granted a rehearing and withdrew the condition compelling the company to file the $50,000 bond.

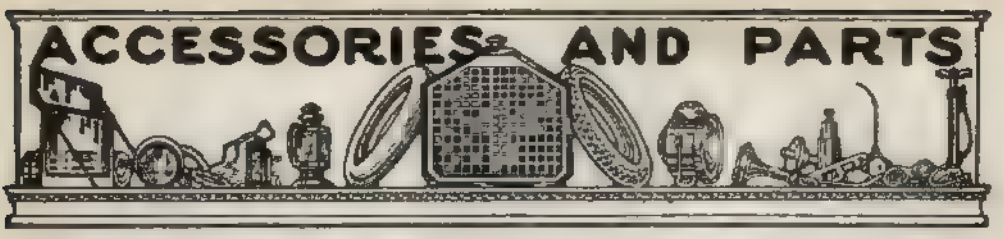
The company now states that it is able to put in force the plan drawn up for further financial support, which plan assures unusual security for all merchandise indebtedness which the company may incur. All bank loans and notes payable aggregating $2,550,000 have been extended, both principal and interest, for 3 years from November 1, 1913. The merchandise creditors will be given first preference and the new capital second preference.

General Motors Company Reports a Successful Year's Business

At the annual meeting of the General Motors Company, on November 13th, President Nash stated that the company is in an exceedingly satisfactory condition, and that the various manufacturing branches of the company have had the most successful year in their history, the business exceeding the previous year by $4,500,000. The company has $2,000,000 in cash on hand more than it had a year ago. He also stated that the general conditions of the trade were being watched closely, and that it was in a position to cut down production if the demand for cars should show any signs of letting up

The following board of directors was elected for the ensuing year: Joseph Boyer, Henry W. Clark, W. C. Durant, Robert S. Herrick, J. H. McClemment, Edwin Metcalf, C. F. Mott, M. J. Murphy, Charles W. Nash, Thomas Neale, Albert Strauss, James J. Storrow, N. S. Tilney and Jacob Wertheim, all of which are the same as last year with the exception of R. S. Herrick and C. S. Mott. Mr. Herrick is a banker of Boston, Mass., and C. S. Mott is president of the Weston-Mott Company, one of the subsidiary companies of the General Motors Company.

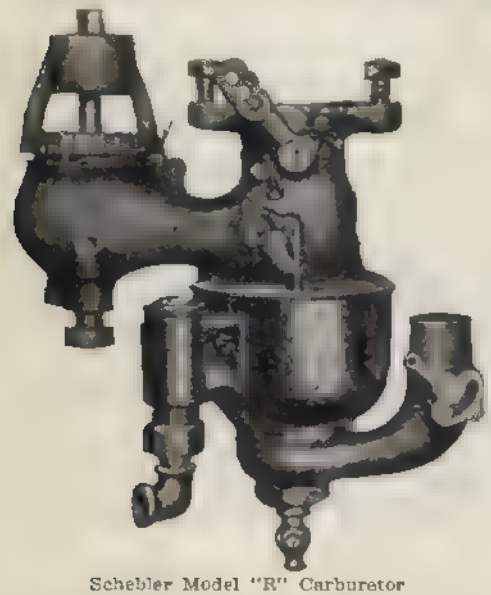
Willys-Overland Company in 1911 had 1514 dealers; in 1912, 1843, and in 1913, 2483. The number in 1913 increased 64 per cent. over 1911.



A New Schebler Carburetor

The carburetor shown in the accompanying cut is a recent addition to the Schebler line. It is known as Model R, and is designed for use on both four and six-cylinder motors. It is a single jet raised needle type of carburetor, automatic in action. The air valve controls the lift of the needle and automatically proportions the amount of gasoline and air at all speeds.

An adjustment is provided for low speed; as the speed of the motor increases, the air valve opens, raising the gasoline needle, thus automatically increasing the amount of fuel. There are but two adjustments—the low speed needle adjustment, which is made by turning the air valve cap, and an adjustment on the air valve spring for changing its tension. The new carburetor has an eccentric which acts on the needle valve, intended to be operated either from the steering column or from the dash, to insure easy starting, as by raising the needle from the seat an extremely rich mixture is furnished for starting, and for heating up the motor in cold weather. A choker in the air bend is also furnished. This carburetor is made in four sizes: 1 in., 1¼ in., 1½ in. and 1¾ Wheeler & Schebler, Indianapolis, Ind., are the manufacturers.



Schebler Model "R" Carburetor

The Motophone

The Automobile Supply Manufacturing Company, of Brooklyn, manufacturer of the Newtone electrical motor driven horn, is now marketing a new horn, hand actuated, styled the Motophone.

The sound in this new mechanical horn is produced by a revolving ratchet that vibrates a steel diaphragm. The power for rotating the ratchet is supplied by the operator through the medium of an easily located lever at the rear of the casing. Mr. Auflero, who developed the Newtone, is the inventor of the Motophone, and he claims that in this new horn he has embodied a very important novel feature whereby a steady and harmonious sound is given. The novel feature consists in the embodiment in the device of a spring governor between the shaft to which the handle is attached and the shaft on which the ratchet is loosely mounted. This spring governor compensates for the quick or slow motion of the operator's hand and drives the ratchet at constant velocity. The Motophone is listed at $12 and can be had in black and nickel, or in black and brass

The Motophone.
A new hand actuated horn.

Stocker Manufacturing Company has obtained a factory at 61 East Fort Street, Detroit, Mich., and will manufacture a double action, single tube pump, patented by Robert Galen, secretary of the company.

AUTOMOBILE HORNS.

SIRENO ELECTRIC.
Automobile Type.

The Penetrating note of the Sireno warning signals is produced by a rapidly revolving motor driven light; Aluminum [illegible] Signal is designed and tremendously efficient, running in two sets of ball bearings. The note is entirely different in tone from other warning signals and of wonderful carrying power. It is not Harsh and Nerve Racking. No oiling or adjusting.

The "SIRENO" is the largest and most powerful, starts instantly, and by means of a magnetic brake stops automatically the moment the push button is released. This braking feature makes it wonderfully flexible in operation. At will the operator may produce a gentle purr, a [illegible] sustained note of great volume by varying the duration of pressure on the switch. It is unequalled on crowded city streets because of its flexibility. Its far-reaching note of warning makes it equally valuable for touring purposes.

The SIRENO JUNIOR in all the essential features is the same as the "SIRENO," except it is without the braking device and is of less volume in tone. Is the ideal horn for touring, responding instantly to the operator's touch and carrying its clear, musical note a mile ahead.

The regular 6 or 8 Volt ignition or starting battery storage or dry cells will furnish the small amount of current required for operating without in any way interfering with its regular duties.

To obtain best results the SIRENO should be used in connection with a 6 or 8 Volt Storage Battery, although 8 Dry cells will operate.

The SIRENO JUNIOR will operate on either a 6 or 8 Volt Storage Battery or 6 or 8 Dry Cells.

Each

No. 8S—SIRENO, with Long Projector; Length over all 12¾ in., Diameter of Bell 5¾ in.; Weight each about 12 lbs. $52.50

No. 6J—SIRENO JUNIOR, with Long Projector; Length over all 10 in., Diameter of Bell 4½ in. Weight each about 8½ lbs. 37.50

Furnished with Two Ten-foot Lengths of Cable, Regular Switch, Bolts, Nuts, Instructions, etc.
One in Wood Box.

TUTO VIBRATOR.

Has Two Tones, which are so distinctive as to be Effective and Compel Attention without being harsh and disagreeable.

By Applying Slight Pressure on the Push Button a Mild Sound is produced and by pushing the Button to the Extreme Bottom Point a Loud, Heavy Tone is the result.

Designed in such a way that the Electrical Energy consumed in its operation is reduced to the minimum, while its parts are so Strong and Rigid that it will operate a lifetime without any attention, such as oiling of Bearings, adjusting of Brush Surfaces, etc.

Can be Operated on One Battery, but should be connected to a series.

The Equipment embraces everything necessary for installation as follows: Connecting Cord, Tuto Push Button, Steering Column Tube, Flexible Tube for Dash, etc., Straps for Mounting Tube in Steering Column, Complete Rubber Bushings for carrying Wire through Wood and Metal parts; set of Saddle Straps for holding Wire, Roll of Tape for protecting Wire Connections, and complete Instruction Book for installing.

Length over all 12 in.; Projects 8 in. in Front and Extends 3 in. in Rear; Bracket 3 in. Long, ½ in. Wide, with Three Mounting Bolts 2x9/16 in., with Washers; Diameter of Bell 7 in.

Each

No. 1BR—POLISHED BRASS $35.00

‡No. 1R—NICKEL PLATED 35.00

‡No. 1BL—BLACK ENAMELED 35.00

‡No. 1NBL—COMBINATION NICKEL PLATED AND BLACK ENAMELED 35.00

‡No. 1BRBL—COMBINATION BRASS AND BLACK ENAMEL .. 35.00

One in a Wood Box; Weight Each about 15 lbs.

TUTOETTE VIBRATOR.

Length over all 10½ in., Projects 7 in. in Front and Extends 3 in. in Rear; Bracket 3 in. Long, ½ in. Wide with Three Mounting Bolts 2x9/16 in., with Washers; Diameter of Bell 6 in.

Each

No. 2BR—BRASS FINISH $26.70

One in a Wood Box; Weight Each about 10 lbs.

AUTOMOBILE HORNS.

NEWTONE—MOTOR.

There is no rasping sound [illegible] unpleasant but a Clear, Melodious and Pleasing [illegible] that can be heard from a Great Distance. This Horn can be run with 50% less current than any other Motor Horn on the market, thus effecting a saving in battery expense by prolonging the life of the batteries. Horns are equipped with a Steel Laminated Field, which produces more power with less consumption than other Horns. The Motor Shaft is run on Hess-Bright Ball Bearings and requires no oil or adjustment, and the Self-lubricating Brushes eliminate the frequent cleaning of Commutators.

TORPEDO

Length over all 11 in.; 3½ in. in Diameter, Projects 6 in. in Front of Brackets and Extends 4 in. in Rear. Equipped with 10 ft. of Covered Cable with Thumb Button which can be fastened to Steering Wheel or Side of Car. Bracket to attach to Car 5 in. Long, 1 in. Wide and ⅛ in. Thick, with Three ⅜ in. Screw Holes. Screws included for attaching to Car. Each

No. TBB—BLACK ENAMELED, with Polished Brass Rim on End of Projector $31.50

No. TR—BRASS FINISH 30.00

No. TNP—NICKEL PLATED FINISH 31.50

‡No. TBNB—BLACK ENAMELED, with Nickel Plated Rim on End of Projector 31.50

‡No. TBLK—FULL BLACK ENAMELED 31.50

One in a Wood Box. Weight each 14 lbs.

TYPE M.

Regular Bell Shaped Auto Horn; Length over all 12½ in.; Projects 9 in. in Front of Bracket and Extends 3 in. in Rear. Bell of Horn is 6¼x [illegible] in.; Equipped with 10 ft. Covered Copper Wire, with Thumb Button on end which may be attached to Steering Wheel or Side of Car; Bracket to attach to Car 5 in. Long, 1 in. Wide and ⅛ in. Thick, with Three ⅜ in. Screw Holes; Screws included for attaching to Car. Each

No. MBB—BLACK ENAMELED, with Brass Covered Bell Flange $31.50

No. MR—BRASS FINISH 30.00

No. MNP—NICKEL PLATED FINISH 31.50

‡No. MBNP—BLACK ENAMELED, with Nickel Plated Interior of Bell Flange 31.50

‡No. MBLK—FULL BLACK ENAMELED 31.50

One in a Wood Box; Weight Each about 15 lbs.

TYPE N

Small Horn for Small Cars; Length over all 6 in.; Extends 3½ in. in Rear of Bracket; Diameter of Bell 5 in., Equipped with 10 ft. Covered Copper Wire and Push Button, which may be attached to Steering Wheel or Side of Car. Bracket 5 in. Long, 1 in. Wide and ⅛ in. Thick, with Three ⅜ in. Screw Holes. Screws included for attaching to Car. Each

No. NBB—BLACK ENAMELED FINISH, with Polished Brass Bell Flange $28.50

No. NR—BRASS FINISH 27.00

One in a Wood Box; Weight Each about 10½ lbs.

NEW TONE—SUPERIOR

Regular Bell Shaped Auto Horn; Length over all 11 in.; projects 7 in. in front of Brackets and extends 4 in. in the Rear; Bell of Horn is 5⅝x7 in. Equipped with 10 ft. Covered copper wire with Thumb Button on the end which can be attached to the Steering Wheel or side of the Car; Bracket to attach to the Car 2 in. Long, 1½ in. Wide, with three ⅜ in. screw holes.

Each

No. SBLK—Black Enameled $15.00

No. SBB—Black Enameled and Brass Combination. 15.00

No. SBA—Black and Nickel Plated Combination 15.00

No. SB—Brass Polished 15.00

No. SN—Brass, Nickel Plated and Polished 15.00

One in a Wood Box; Weight Each about 12 lbs.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

AUTOMOBILE HORNS.

THE LONG HORN.

Style "A" Bracket can be used on all Bodies except Four Door.

Style "B" Bracket suitable for Four Door Bodies.

Produces a volume of sound equaled only by the Highest Priced Motor Horn. Simple in Construction. Practically Impossible to get out of order. Guaranteed against Defective Material and Workmanship, and does away entirely with the Electric Batteries.

The Small Diaphragm at the Horn's Downward Pressure on the serrated Stem has a set of Notches or Grooves in it on the side that rests in Cogs on the Inner Circle of a Wheel, the Wheel has a set of Cogs on the Surface, and come in contact with another series of Cogs on the Inner Circle of a Fly Wheel, creating a very High Speed; The Side of the Fly Wheel is fitted with Hard ned Rollers that slide in grooves (to minimize the wear), and strike a Hardened Steel Point in the Center of the Diaphragm and Horn as the sound which may be varied from a Soft Purring Tone to the Most Powerful and Penetrating Warning, depending upon the pressure upon the Plunger. Severe tests have shown that RAIN, SNOW OR MUD WILL NOT INTERFERE WITH ITS OPERATION.

It is simple to attach and can be placed in any position most convenient to the operator.

Length over all of Horn Length of Projector 6 in.; Diameter of Bell of Projector 5 in.

HIGHLY POLISHED BRASS.

	Each
No. ALHB—WITH BRACKET "A"	$27.00
No. BLHB WITH BRACKET "B"	27.00

BLACK ENAMELED OUTSIDE, INSIDE OF BELL POLISHED BRASS.

No. ALHBB—WITH BRACKET "A"	$27.00
No. BLHBB—WITH BRACKET "B"	27.00

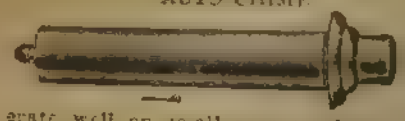
BLACK ENAMELED OUTSIDE, INSIDE OF BELL NICKEL PLATED.

No. ALHBN—WITH BRACKET "A"	$27.00
No. BLHBN—WITH BRACKET "B"	27.00

One in a Wood Box; Weight Each about 10 lbs.

EXHAUST HORNS.

AUTO CHIME.



Horns are all Brass; Highly Polished; Operates equally well on all makes of Cars if properly adjusted. The Large Horn does not operate well on small cars as there is not power enough to operate them. The Small Horn is a combined tone which easily clears the road.

	Each
No. 12 C—Length 12 in., Diameter 2 in.; Weight each about 3 lbs.	$4.00
No. 15/C—Length 15 in.; Diameter 2½ in.; Weight each about 5½ lbs.	5.00

One in a Cardboard Box.

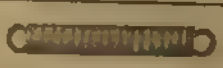
EXHAUST HORN PEDALS.

All Brass parts of the Pedals that show in the car are Highly Polished. Pedal is fastened to floor of car by three Screws. Shank of pedal below foot is 3 in. Long, Pedal is 3 in. Long by 1 in. Wide in widest part.

	Each
No. 20—PEDALS ONLY	$0.70

Weight Each 12 oz.

EXHAUST HORN SPRINGS.



Tempered Steel Expansion Coil Spring, with Loop for End Fastening. Length 6½ in., Diameter ½ in.

	Each
No. 8—Black Enameled	$0.14

Packed Loose; Weight Each about 1½ ozs.

CUT-OUT PEDALS.

MUFFLER.

Cast Brass Throughout, except the Helical Steel Spring and the Two Rivets that hold the Bottom Lever to the Floor Plate; Floor Plate Highly Polished, 4⅝ in. Long, 1⅝ in. Wide, with Two Screw Holes; the Foot Knob has a Serrated Top to prevent the Foot from Slipping; Bottom Lever extends 3¾ in. below the Bottom of the Floor Plate and has a Sweep of 3 in. from Neutral Position when the Foot Lever is Clamped Down and has a notch in Upright so it can be Locked and Held Down if desired.

	Each
No. 22—Weight each about ½ lb..	$0.80

Packed Loose.

EXHAUST HORN VALVES.

To Fit Exhaust Pipes Made of Standard Iron Pipe.

Iron Pipe Measured by the Inside Diameter of the Opening, and Iron Pipe Valves are Threaded with standard Size Iron Pipe Thread. Consequently the Outside Diameter of the Threaded Surface is Considerably Larger than the Sizes Specified, Allowing for the Thickness of the Walls of the Pipe.

	Each
No. 1—1 in.; Weight 2 lbs.	$1.60
No. 2—1¼ in.; Weight 2¼ lbs.	2.00
No. 3—1½ in., Weight 2½ lbs.	2.50
No. 4R—2 in.; Weight 3¼ lbs.	2.80
No. 5—2½ in.; Weight 3½ lbs.	4.00

SMOOTH BORE.

To Fit Exhaust Pipes made of Seamless Steel Tubing.

The size of Seamless Steel Tubing is determined by the outside diameter of the Tube and Smooth Bore Valves are ground so the Steel Pipe will Slip Inside of the Valve Barrel and must be made Secure by drilling Holes through the Valve and Exhaust Pipe and putting in.

Nos.	1/S	2/S	3/S	4/S
Size, Inches	1	1¼	1½	2
Weight each about, lbs	¾	1	2½	2½
Each	$1.60	2.00	2.50	2.70
Nos.	5/S	6/S	7/S	
Size, Inches	2½	2¾	3	
Weight each about, lbs	3	3	3½	
Each	$4.00	4.00	4.00	

Packed Loose

COUNTER BORE.

The Extreme End of the Valve, where the Steel Exhaust Pipe slips in, is bored out and when the Pipe is inserted in the Valve it fits against the Offset on the Inside of the Valve.

Nos.	1/C	2/C	3/C	4/C
Size, Inches	1⅝	1¾	1⅞	2
Wgt. ea. abt. lbs	1¾	2	2½	2½
Each	$1.60	2.00	2.50	2.50
Nos.	5/C	6/C	7/C	8/C
Size, Inches	2⅛	2⅜	2⅝	2¾
Weight each about, lbs.	3	5½	6	
Each	$2.70	2.70	4.00	4.00

Packed Loose.

CUT-OUT VALVES.

RUDIE.

The Chamber is Larger than the Exhaust Pipe, which allows same to clean itself. Made with Split Body, so that it can be easily clamped and Bolted to the Exhaust Pipe. To Inst ll a V-shaped Opening must be cut in the Exhaust Pipe of sufficient Length to allow room for the Valve and free Passage of the Exhaust through the Cut-out. The sizes specified below are the diameter of the Bored Opening that clamps round the Exhaust Pipe.

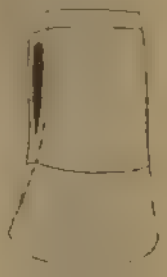
Nos.	R1¼	R1⅜	R1½	R1⅝	R1¾
Size, Inches	1¼	1⅜	1½	1⅝	1¾
Weight each about, lbs	1½	1⅝	1¾	2¼	2¼
Each	$1.40	1.40	1.40	1.60	1.60
Nos.	R1⅞	R2	R2¼	R2⅜	R2½
Size, Inches	1⅞	2	2¼	2⅜	2½
Weight each about, lbs	2¾	4	4	4	4
Each	$1.60	1.60	2.00	2.00	2.00
Nos.			R2⅝	R2⅞	R3
Size, Inches			2⅝	2⅞	3
Weight each about, lbs			4½	4½	4¼
Each			$2.50	2.50	2.50

Packed Loose.

‡AXES.

Showing comparison of various patterns of Axes, which can be furnished in any of our Catalogued Brands. Patterns not regularly listed under the respective brands, for stock shipment, can be furnished only by shipment direct from factory.

Boston, S. B



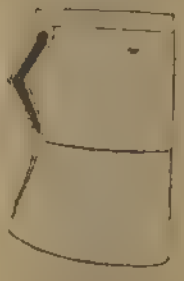
Turner S B

Michigan S B

Wisconsin S B

Regular Kentucky, S B

Southern Kentucky, S. B



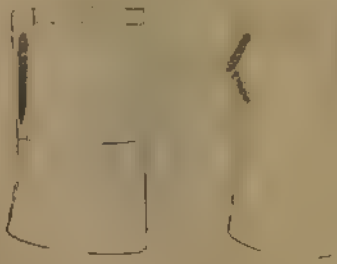
Baltimore Kentucky, S. B.

Baltimore Jersey, S B.

Rockaway Jersey, S. B.

Ohio S B

Hoosier of Zeeck, S. B.



Wedge, S. B. Turpentine.

Boring.

Regular or Western, D. B.

Wisconsin, D. B.

Reversible (or Half Pruning), D. B.

Fruit Pruning, D B.

Michigan (or Crown), D. B.

Felling, D. B.

Wedge D B

HANDLE COMBINATIONS FOR HANDLED AXES.

Priced Complete, Including Cost of Handles, Wedges, Handling, Finishing, etc. By adding the Price and Number of any of the following Handles to the Price and Number of [illegible] Axe the Price and Number of the desired Handled Axe may be found.

For example, if KEEN KUTTER* [illegible] Cast Yankee Single Bit Axes, No. KN[illegible] to 4½ lbs. are desired fitted with Cumberland Octagon No. CXX 36 in. Handles (No. Q. Listed Below) order as No. KY100Q, 3½ to 4½ lbs.

Showing our Secure Method of Crating and Wrapping all our Handled Axes

Twenty Years' experience in Handling AXES. IT IS NO EXPERIMENT WITH US

Our Axe Handling Department is under Our Own Supervision, and we employ Workmen who know by many years' experience the Correct Shaping and Set of the Handle. Every Axe is Handled by a Fixed Gauge to insure its being Perfect in this respect.

All our Handled Axes are Wedged with the SIMMONS PATENT Double Locking Axe Wedge, which will Positively Prevent the Head from Flying Off the Handle. The Heavy Malleable Wedge has Grooved Sides so formed that when the Strong Steel Pins are Driven in the Wedge, the Sharpened End of the Pins are Curled and Forced into the Wood on Both Sides by Striking the Ends of the Grooved Wedge, forming the Hole, forming a Hook and making a Positive Double Lock.

Wedge

Application of Wedge.

SINGLE BIT.

Genuine Hand Made, Second Growth White Hickory.

	4 Inch	Per Dozen
No. E4—KEEN KUTTER*, No. KX34, Octagon		$ 9.00
No. F4—KEEN KUTTER*, No. KR34, Oval		9.00
	36 inch.	
No. A—NONPAREIL*, No. NX36, Octagon		$ 8.50
No. B—NONPAREIL*, No. NR36, Oval		7.50
No. C—COLORADO*, No. WR36, Oval		7.60
No. D—CHAMPION*, No. CH36, Octagon		7.30
No. E—KEEN KUTTER*, No. KX36, Octagon		9.00
No. F—KEEN KUTTER*, No. KR36, Oval		9.00
No. G—KEEN KUTTER*, No. KN36, Oval		9.00

Hand Shaved Finish; Second Growth Hickory, 36 In.

No. H—CUMBERLAND*, No. CSXXX, Octagon	$ 7.90
No. J—CUMBERLAND*, No. CSXX36 Octagon	5.80
No. K—CUMBERLAND*, No. CSX Octagon	5.20
No. L—CUMBERLAND*, No. CSA Oval	7.90
No. M—CUMBERLAND*, No. CSA36, Oval	5.80
No. N—CUMBERLAND*, No. CSA, Oval	5.20
No. P—CUMBERLAND*, No. CXX, Octagon	7.30
No. Q—CUMBERLAND*, No. CXX, Octagon	5.20
No. QH—CUMBERLAND* Handled Axe, No. CHXX, Octagon	5.80
No. R—CUMBERLAND*, No. CX Octagon	4.90
No. RH—CUMBERLAND*, No. CHX, Octagon Heavy	5.20
No. S—CUMBERLAND*, No. CAA, Oval	7.30
No. T—CUMBERLAND*, No. CA, Oval	5.20
No. TH—CUMBERLAND*, No. CHA, Oval Heavy	5.80
No. U—CUMBERLAND*, No. C/1, Oval	4.80

Hand Shaved Finish, Second Growth Oak, 36 Inch.

No. V—BLUE OAK*, No. A1R, Oval	$ 5.20
No. W—BLUE OAK*, No. B2R, Oval	5.10
No. X—BLUE OAK*, No. A1N, Oval	5.20
No. Y—BLUE OAK*, No. A1L, Oval	5.20
No. Z—BLUE OAK*, No. B2L, Oval	5.40

Hand Shaved Finish, Select Red Hickory, 36 Inch.

No. AA—DELMAR*, No. D36, Octagon	$ 4.20
No. BB—DELMAR*, No. DR36, Oval	4.20

Hand Shaved Finish, Second Growth Hickory, 36 Inch.

No. CC—MINNESOTA CHIEF*, No. MC/4X, Oval	$ 7.90
No. DD—MINNESOTA CHIEF*, No. MC/3X, Oval	5.80
No. EE—MINNESOTA CHIEF*, No. MC/2X, Oval	5.60
No. FF—WISCONSIN*, No. R4X, Oval	7.90

HANDLE COMBINATIONS FOR HANDLED AXES.

SINGLE BIT.

Hand Shaved Finish, Second Growth Hickory, 36 Inch

	Per Dozen
No. GG—WISCONSIN*, No. R3X, Oval	$ 5.80
No. HH—WISCONSIN*, No. L2X, Oval	5.20
No. JJ—WISCONSIN*, No. L4X, Oval	7.80
No. KW—WISCONSIN*, No. L3X, Oval	5.80
Hickory, Machine Made, 36 Inch	
No. NN—LONE STAR* No. LSX Octagon	$ 7.30
No. QQ—STANDARD No. SXX Octagon	5.20
No. RR—STANDARD No. SX Octagon	4.70
No. SS—STANDARD, No. SAA, Oval	6.30
No. TT—STANDARD, No. SA, Oval	5.20
No. UU—STANDARD, No. S/1, Oval	4.20
No. WW—STANDARD, No. S/2, Oval	3.10
No. XX—STANDARD, No. S/3, Oval	2.70
Straight Coal Axe, Hickory, 28 Inch	
No. YY—COAL AXE, No. SCA, Oval	$ 1.20
No. ZZ—COAL AXE, No. SC 2, Oval	2.20

DOUBLE BIT.

Genuine Hand Made, Second Growth White Hickory, 36 inch.

	Per Dozen
No. DA—NONPAREIL*, No. NDX36, Octagon	$ 8.50
No. DC—KEEN KUTTER*, No. KDX36, Octagon	9.00
No. DE—KEEN KUTTER*, No. KDR36, Oval	9.00
No. DE4—KEEN KUTTER*, No. KDR34, Oval	9.00
Hand Shaved Finish, Second Growth Hickory, 36 inch	
No. DF—CUMBERLAND*, No. CDXX, Octagon	$ 5.80
No. DG—CUMBERLAND*, No. CDAA, Oval	7.30
No. DH—CUMBERLAND*, No. CDA, Oval	5.80
No. DJ—CUMBERLAND*, No. CD1, Oval	5.20
Hand Shaved Finish, Second Growth Oak, 36 Inch.	
No. DK—BLUE OAK*, No. A1RDB, Oval	$ 5.20
No. DL—BLUE OAK*, No. B2RDB, Oval	5.10
No. DM—BLUE OAK*, No. A1NDB, Oval	5.20
Hand Shaved Finish, Second Growth Hickory, 36 inch.	
No. DN—WISCONSIN*, No. DB4X, Oval	$ 7.90
No. DO—WISCONSIN*, No. DB3X, Oval	5.80
Hickory, Machine Made	
No. DR—STANDARD, No. SDAA, 36 in., Oval	$ 6.40
No. DS—STANDARD, No. SDA, 36 in., Oval	5.20

One doz. Complete in a Crate.

We strongly recommend that no grade lower than a No. SXX Octagon, or a No. SA Oval Handle be used in our better grade Axes. A lower grade Handle will Cheapen the Appearance of the Axe, and is almost sure to be unsatisfactory.

We suggest the following list of Handles as most suitable for Various Weights of Axe

3 and 3½ LB. AXES

KEEN KUTTER* Handle No. KN36
WISCONSIN* Handles Nos. R4X, R3X, L4X and L3X.
BLUE OAK* Handles Nos. A1N, A1L and B2L

3 to 4 LB. AXES

BLUE OAK* Handles Nos. A1R and B2R
MINNESOTA CHIEF* Handles Nos. MC/4X and MC/3X.

3½ to 5 LB. AXES.

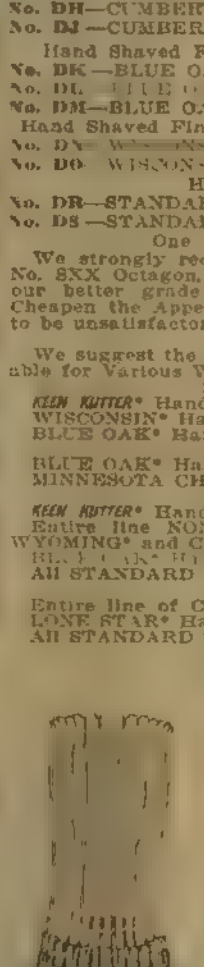
KEEN KUTTER* Handles Nos. KX36 and KR36
Entire line NONPAREIL*, COLORADO*, CHAMPION*, WYOMING* and CUMBERLAND Handles
BLUE OAK* Handles Nos. A1R and B2R.
All STANDARD Turned and Shaved Handles

4 to 6 LB. AXES

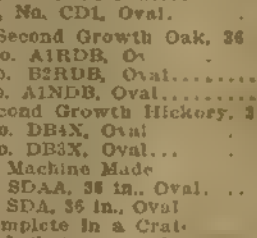
Entire line of CUMBERLAND* Handles
LONE STAR* Handles.
All STANDARD Turned and Shaved Handles

AXE RACKS.

SENSIBLE



Showing Sensible Rack, Displaying Handled and Unhandled Axes.



ONE SENSIBLE RACK only, given free of charge to each customer, with a Purchase of Ten Dozen Assorted Axes of OUR OWN BRANDS.

Hardwood, Oil Finished, with Edges and Top Painted Red and Varnished. Capacity 32 Handled or 32 Unhandled Axes; If Larger Capacity is Wanted, Two Racks may be placed back to back, thus holding 64 Axes; Height 13 in.; Length 37 in.; Width 14½ in.

	Each
No. 8—SENSIBLE. Weight each about 35 lbs. One in a Crate.	$5.00

ADJUSTABLE IRON PLANES

BAILEY'S BENCH

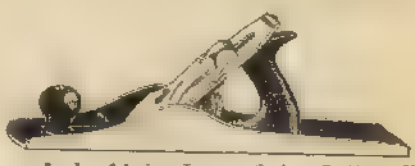
The Cutter, which is thin and of uniform thickness, is a prominent feature of the "Bailey" Plane. It is made of the finest quality English steel tempered and ground by an improved process and honed ready for use. It is adjustable endwise by means of the adjusting wheel at the back of the frog. It is also adjustable sidewise by lever located near the top and at the back of the cutter.

The Handle and Knob are made of highly finished, thoroughly finished rosewood

SMOOTH

		Each
No. 2	—7 in Long, 1⅝ in. Cutter, Weight Each 2¼ Lbs.	$2 70
No. 3	—8 in Long, 1¾ in. Cutter, Weight Each 3 Lbs.	2.80
No. 4	9 in Long, 2 in Cutter, Weight Each 3¾ Lbs.	3.00
No. 4½	—10 in Long, 2⅜ in Cutter, Weight Each 4¾ Lbs	3.50

JACK, FORE AND JOINTER



		Each
No. 5	—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4¾ Lbs.	$3 50
No. 5½	—Jack, 15 in. Long, 2¼ in. Cutter, Weight Each 6¾ Lbs.	4.00
No. 6	—Fore, 18 in. Long, 2⅜ in. Cutter, Weight Each 7¾ Lbs.	4.50
No. 7	—Jointer, 22 in. Long, 2⅜ in Cutter, Weight Each 8 Lbs.	5 20
No. 8	—Jointer, 24 in Long, 2⅜ in. Cutter, Weight Each 9¾ Lbs.	6 20

Smooth

With Corrugated Bottom

		Each
No. 2C	—7 in. Long, 1⅝ in Cutter, Weight Each 2¼ Lbs.	$2.70
No. 3C	—8 in Long, 1¾ in. Cutter, Weight Each 3 Lbs.	2 80
No. 4C	—9 in Long, 2 in. Cutter, Weight Each 4¾ Lbs.	3.00
No. 4½C	10 in Long, 2⅜ in Cutter Weight Each 4¾ Lbs.	3.50

Jack, Fore and Jointer

With Corrugated Bottom

		Each
No. 5C	—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4¾ Lbs.	$3.50
No. 5½C	—Jack, 15 in Long, 2¼ in. Cutter, Weight Each 6¾ Lbs.	4.00
No. 6C	—Fore, 18 in. Long, 2⅜ in Cutter, Weight Each 7¾ Lbs.	4 50
No. 7C	—Jointer, 22 in. Long, 2⅜ in. Cutter, Weight Each 8 Lbs.	5.20
No. 8C	—Jointer, 24 in Long, 2⅜ in Cutter, Weight Each 9¾ Lbs.	6.20

ADJUSTABLE WOOD BOTTOM PLANES

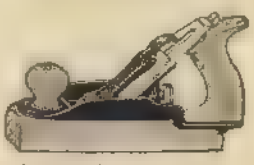
BAILEY'S BENCH

The Bottom, Handle and Knob of these Planes are made from selected and well seasoned beechwood. The Cutters are the regular "Bailey" type and are adjustable both endwise and sidewise

SMOOTH

		Each
No. 24	—8 in. Long, 2 in Cutter, Weight Each 3 Lbs.	$2 10

HANDLED SMOOTH



		Each
No. 35	—9 in. Long, 2 in. Cutter, Weight Each 3¼ Lbs	$2.50

All Above, One in a Box

JACK AND FORE

		Each
No. 27½	—Jack, 15 in. Long, 2¼ in. Cutter, Weight Each 4¾ Lbs.	$2.50
No. 29	—Fore, 20 in. Long, 2⅜ in. Cutter, Weight Each 6¼ Lbs.	2.80

One in a Paper Package.

JOINTER

		Each
No. 31	—24 in. Long 2⅜ in Cutter Weight Each 6½ Lbs	$3 00
No. 32	—26 in Long, 2⅝ in Cutter Weight Each 7½ Lbs.	3 30
No. 33	—28 in. Long, 2⅝ in. Cutter, Weight Each 8⅜ Lbs.	3.80
No. 34	—30 in. Long, 2⅝ in Cutter, Weight Each 8½ Lbs	4.50

One in a Paper Package

IRON BLOCK PLANES

STANLEY'S

No. 101

No. 100

Each

No. 101—3½ in. Long, 1 in. Cutter, Non-Adjustable $0 30
No. 100—3½ in. Long, 1 in. Cutter, Non-Adjustable, Handled 40

No. 102

Each

No. 102—5½ in. Long, 1⅝ in. Cutter, Non-Adjustable, Weight Each ⅞ Lbs. $0.50
No. 103—5½ in. Long, 1⅝ in. Cutter, Endwise Lever Adjustment, Weight Each ⅞ Lb. . 70

Each

No. 220—7½ in. Long, 1⅝ in. Cutter, Rosewood Knob, Endwise Screw Adjustment. $1 00
Weight Each 1½ Pounds

Each

No. 203—5½ in. Long, 1⅝ in. Cutter, Rosewood Knob, Endwise Screw Adjustment. . . $1 10

Designed especially for manual training use. The bottom and sides are ground and it is fitted with the well known "Hand-y" feature, which aids very materially in providing a firm grip for the hand of the user. The cutter is secured in its place by a lever fastened with a cam

Weight Each 1⅛ Pounds

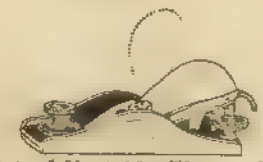
BAILEY'S

Adjustable Throat

Each

No. 9½—6 in. Long, 1⅝ in. Cutter, Endwise Screw and Lateral Lever Adjustment, Japanned Trimmings, Weight Each 1½ Pounds. . . $1.50

BAILEY'S



Knuckle Joint, Adjustable Throat, Nickel Plated Trimmings

Each

No. 18—6 in. Long, 1⅝ in. Cutter, Endwise Screw and Lateral Lever Adjustments. $1.70
No. 19—7 in. Long, 1⅝ in. Cutter, Endwise Screw and Lateral Lever Adjustments. 1.80

The Knuckle Joint in the cap makes it also a lever, and placing the cap in position clamps the cutter securely to its seat. All Bailey Block Planes have adjustable throats which permit of the opening or closing of the mouth as coarse or fine work may require.

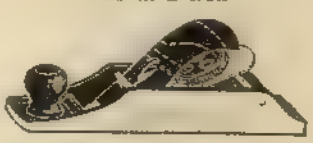
All Above, One in a Box

No. 110

Each

No. 110—7½ in. Long, 1⅝ in. Cutter, Non-Adjustable, Applewood Knob, Weight Each 1⅝ Lbs. $0.70
No. 120—7½ in. Long, 1⅝ in. Cutter, Endwise Lever Adjustment, Rosewood Knob Weight Each 1⅝ Lbs. 1.00

One in a Box



Double Ender

Each

No. 130—8 in. Long, 1⅝ in. Cutter, Rosewood Knob $1.00

This Plane has two Slots and two Cutter Seats. By reversing the position of the Cutter and the Clamping Wedge, it can be used close up into the corners, or other difficult places

Weight Each 1⅝ Pounds
One in a Box

Low Angle, Adjustable Throat

Each

No. 60 —6 in. Long, 1⅝ in. Cutter, Endwise Screw Adjustment, Nickel Plated Trimmings, Weight Each 1¼ Lbs. $1.60
No. 60½—With Japanned Trimmings, Otherwise Same as No. 60. . . . . 1.50
No. 65 —7 in. Long, 1⅝ in. Cutter, Endwise Screw Adjustment, Nickel Plated Trimmings, Weight Each 1⅝ Lbs. 2.00
No. 65½—With Japanned Trimmings, Otherwise Same as No. 65. . . . . 1.70

In the Low-Angle Planes the cutter rests on its seat at an angle of only 12 degrees. This angle permits of great ease in working across the grain on hard woods They have adjustable throats, which allow of the opening or closing of the mouth, as coarse or fine work may require

One in a Box

EDGE TRIMMING PLANES

STANLEY'S

Each

No. 95—6 in. Long, ⅞ in. Cutter, Japanned. . . . $3 00

Designed especially for trimming or smoothing the ends of boards, such as sidings, etc., for a square or close fit. It has a right angle rest or guide from the cutter edge, and the cutter works on a skew giving an easy shaving cut. In the rest or guide are two screw holes to which wood blocks of various bevels may be attached enabling the user to make a slanting cut.

Weight Each 1¼ Pounds
One in a Box

CAMP LAMPS.

FOR CARBIDE.

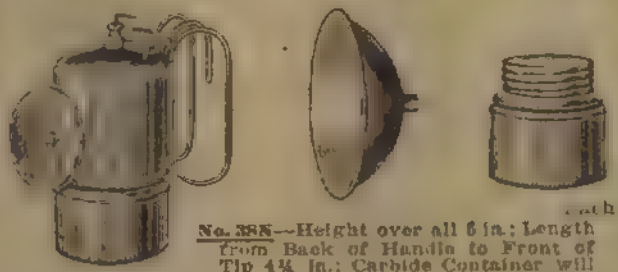
Nickel Plated Brass Throughout. Bottom of Lamp is Carbide Container, with Screw Top and Heavy Rubber Washer to make a Gas Tight Joint; Supplied with an Extra Carbide Holder with Cover; When the first Charge of Carbide is consumed, the Cover from the Extra Container should be transferred to the Holder containing the residue and the Extra Container substituted in the Lamp; the Two Charges are sufficient to last about 6 Hours. At the Extreme Top of the Water Reservoir the Water Supply is controlled by a Wire at the Top of the Lamp extending through the Reservoir to the Bottom of the Carbide Holder; Furnished with Two Round Bright Tin Reflectors, One of a Flat Design for distributing the Light over a considerable space, and the other Deep Cupped to concentrate or focus the light over a small radius.

Fitted with a Lava Tip, and each Lamp is supplied with a Tip Cleaner; Back is fitted with a Hook and Two Wire Handles for Carrying; The Hook is convenient so that the Lamp can be easily hung up.

BALDWIN

Each

No. 20—Height over all 7⅛ in.; Length from Back of Hook to Front of Tip 3⅛ in.. Carbide Container will Hold 1¾ oz. of Carbide; Reflectors 2¾ in in Diameter..$2.70



Each

No. 388—Height over all 6 in.; Length from Back of Handle to Front of Tip 4¼ in.; Carbide Container will hold about 3 oz. of Carbide; One Reflector 2 in. in Diameter and One 3¼ in. in Diameter $3.60

One Complete Lamp with Extra Container and Reflector, in a Cardboard Box; Weight Each about ¾ lb

ACETYLENE GAS LAMPS.

FOR HUNTERS, FISHERMEN, MINERS AND SPORTSMEN

Top provided for the Water Supply, Lower Part used for the Carbide; Removable Telescoped Brass Carbide Retainer in Two Sections; Top Half equipped with Perpendicular Perforated Partition with Cloth Covering to Equally Distribute the Water Supply which comes in Direct Contact with the Carbide and Generates the Gas; Lower Half supplied with Wire Screen allowing the Residue or Slacked Carbide to Sieve to the Bottom of the Retainer, consequently the unused Carbide is always Clean and in Direct Contact with the Water Supply assuring a Steady Strong Light; Top of Generator fitted with Screw Filler Cap with Small Pin Hole to prevent the Gas Accumulating and Exploding; Water Supply Regulated by Small Lever on Top of Generator, Generator connected by a Tube to the Gas Magazine extending through the Water Reservoir. Metal Strap on Side of Generator to fasten to Cartridge Belt; Knurled Edge Bottom with Heavy Rubber Washers on inside, Screws on.

Brass Gun Metal Finish Generator 5½ in. Long, 3 in. in Diameter; Partition on inside; Capacity 3½ oz., Sufficient to Burn 5½ Hours, Stop Cock on Side of Generator to Shut Off Gas Supply or Extinguish the Light; Weight about 16 oz.

Gun Metal Finished Headlight with Powerful Parabolic Reflector; Diameter of Face 2¾ in., Lava Tip; Snap Fastening on Lens; Metal Band ⅞ in. Wide, fastened to Back of Headlight and attached with a Leather Strap 36 in. Long by ⅝ in. Wide, to the Head or Cap; Weight about 6 oz. Metal Gas Tube ¼ in. in Diameter, leading to Burner around the Head and connected to Generator by a Good Quality Rubber Hose 24 in. Long

No. 175—Complete as described.....Each, $8.00

Generator, Headlight, Tube and Head Strap Packed in a Cardboard Box.

NO BELT INCLUDED

Weight Each, Complete, about 1¾ lbs.

LANTERNS.

POLICE BULL'S EYE.

With Slide.

Tin, Black Japanned; For Lard Oil, uses Miners' Wick, Oil Pot Capacity ½ pint

Per Dozen

No. 2½—Bull's Eye 2½ in. in Diameter; Height 7 in $9.50

No. 3B—Bull's Eye 3 in. Diameter Height 8 in..... 11.00

Weight per Dozen about 12 lbs.

Packed Loose.

Brass, Tin Bottom; Lacquered Double Seamed and Soldered; For Coal Oil; Special Cadet Brass Burner, uses ½ in Wick (Wick included); No. A Globe; Oil Pot Capacity ¼ pint; Height 7 in.; Diameter of Base 3⅛ in., ⅛ in. Brass Wire Bail, fastens in Top Canopy

Per Dozen

No. 1BB—Weight per dozen about 7 lbs..$5.00

Globe Unscrews at Top and Bottom

One Dozen in a Cardboard Box

Tin Bottom Double Seamed and Soldered; For Coal Oil; Special Cadet Burner, uses ½ in. Wick (Wick included), No. A Globe, Oil Pot Capacity ¼ pint, Height 7 in.; Diameter of Base 3⅛ in.; ⅛ in. Wire Bail, fastens in Top Canopy.

Per Dozen

No. 1T—Weight per dozen about 7 lbs...$2.40

Globe Unscrews at Top and Bottom

One Dozen in a Cardboard Box.

Thirty-six Dozen in a Case.

HUNTERS' AND FISHERMEN'S LAMPS.

Made of Tin; To Fasten Overhead; For Night Hunting and Fishing; Can also be Used for Camp or Stable.

Per Dozen

No. 3BF—SAMBO, with 3¼ in. Mirror in Back of Lamp used as Reflector, For Coal Oil; Brass Calendar Burner, uses No. 0 Flat Wick (no Wick included); Oil Pot Capacity ½ pint; Height 11 in.; Weight per dozen about 12 lbs. $14.50

Per Dozen

No. 11—Can be used with Lard Oil or Coal Oil; Oil Pot Capacity ¾ pint; Two Tubular Tin Tube Burners; Miners' Wick is to be used with this Lamp, Height of Shield 8 in.; Weight per dozen about 15 lbs.....$7.50

One Dozen in a Cardboard Box.

ILLUMINATING TORCHES.

GASOLINE.

Are Particularly Adapted for use in Factories, Foundries, Machine Shops, Rolling Mills, Blacksmith Shops, Warehouses, Markets, etc.

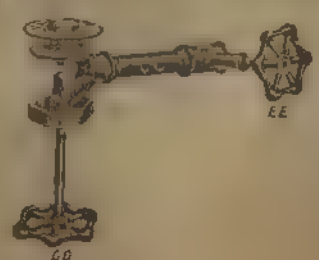
Reservoir, IX Tin, Japanned; Capacity 1 Gallon. Will Burn about Eight Hours, ⅛ in. Gas Pipe with Joint, Japanned, ¼ in Safety Valve Wick Packing between Safety Valve and Burner; Cast Brass Burner.

Per Dozen

No. 500—Height over all 40 in.; Weight per Dozen about 55 lbs.....$24.00

Packed Loose.

‡ *EXTRA PARTS FOR ILLUMINATING TORCHES No. 500.*



	Each
‡ *No. CC—Packing Pipe; Weight each about 3 oz*	$0.50
‡ *No. DD—Wheel Valve Rod. Weight each about 4 oz.*	.52
‡ *No. EE—Globe Valve for Regulating Pressure; Weight each about 5 oz.*	.54
‡ *No. FF—Burner Complete; Weight each about 18 oz.*	1.00

Packed Loose.

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

BARBED FENCE WIRE.

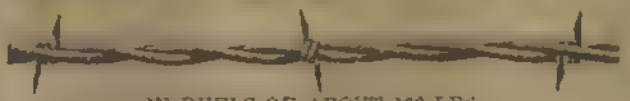
IN REELS OF ABOUT 100 LBS.

LYMAN PATTERN, 4 POINT BARBED FENCE WIRE; 12 GAUGE WIRE.

Per Pound

No. LGC 100—4-Point Galvanized Cattle; Barbs 6 in. apart; Weight per rod about 1 lb. ... $

No. LGH100—4-Point Galvanized Hog or Thick Set Barbs 3 in. apart; Weight per rod about 1 1/16 lbs. $



IN REELS OF ABOUT 100 LBS

AMERICAN GLIDDEN; 2-POINT BARBED FENCE WIRE; 12 GAUGE WIRE

Per Pound

No. AGPC 100—2-Point Painted Cattle; Barbs 5 in. apart; Weight per rod about 1 lb. ... $

No. AGGC 100—2-Point Galvanized Cattle; Barbs 5 in. apart; Weight per rod about 1 lb. ...

No. AGPH100—2-Point Painted Hog or Thick Set Barbs 3 in. apart; Weight per rod about 1 lb. ...

No. AGGH100—2-Point Galvanized Hog or Thick Set Barbs 3 in. apart; Weight per rod about 1-1/16 lbs.

IN 80 ROD REELS.

LYMAN PATTERN; 4 POINT BARBED FENCE WIRE, 12 GAUGE WIRE.

Per Reel

‡No. LPC 80—4-POINT PAINTED CATTLE, Barbs 6 in. apart; Weight per rod about 1 lb. ...

No. LGC 80—4-Point Galvanized Cattle; Barbs 6 in. apart; Weight per reel about 86 lbs. ...

‡No. LPH80—4-POINT PAINTED HOG or Thick Set, Barbs 4 in. apart; Weight per rod about 1 1/16 lbs. ...

No. LGH80—4-Point Galvanized Hog or thick Set Barbs 4 in. apart, Weight per reel about 90 lbs. ...

IN 80 ROD REELS.

AMERICAN GLIDDEN; 2 POINT BARBED FENCE WIRE, 12 GAUGE WIRE.

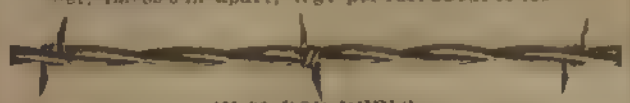
Per Reel

‡No. AGPC 80—2-POINT PAINTED CATTLE; Barbs 5 in. apart; Weight per rod about 1 1/16 lb. ...

No. AGGC 80—2-Point Galvanized Cattle; Barbs 5 in. apart; Weight per reel about 93 lbs. ...

‡No. AGPH80—2-POINT PAINTED HOG or Thick Set Barbs 3 in. apart; Weight per rod about 1 lb. ...

No. AGGH80—2-Point Galvanized Hog or Thick Set, Barbs 3 in apart; Wgt per reel about 85 lbs



IN 80 ROD REELS

"AMERICAN SPECIAL" (GLIDDEN PATTERN) 2 POINT BARBED FENCE WIRE; 14 GAUGE WIRE

Per Reel

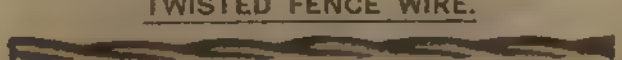
No. AGC 80—2-Point Galvanized Cattle; Barbs 5 in. apart; Weight per reel about 55 lbs. ...$...

No. AGH80—2-Point Galvanized Hog; Barbs 3 in. apart; Weight per reel about 60 lbs. ...

ESTIMATED WEIGHTS OF BARBED WIRE

	Feet per lb.	Pounds per Mile
Lyman; Galvanized Cattle ...	13[illegible]	383
Lyman; Galvanized Hog ...	12	409
Glidden; Galvanized Cattle	16	330
Glidden; Galvanized Hog ...	14 6	[illegible]

TWISTED FENCE WIRE.



2 STRAND; WITHOUT BARBS 12 GAUGE WIRE.

Per Pound

Twisted Fence Wire; Galvanized, Weight per reel abt. 100 lbs. ... $

STEEL WIRE.

Annealed Plain, Smooth Fence Wire; In 100 lb. Bundles

Nos.	6	7	8	9	10	11
Per lb.	$ [illegible]	[illegible]	[illegible]	[illegible]	11	12
Nos.	12	13	14	15	16	
Per lb.	$ [illegible]	[illegible]	[illegible]	14	14	

Nos. 13, 14, 15, 16 Annealed Fence Wire are USED FOR BALING WIRE

Galvanized Smooth Fence Wire; In 100 lb. Bundles.

Nos.	6	7	8	9	10	11
Per lb.	$ [illegible]	[illegible]	.10	.10	11	11
Nos.	12	13	14	15	16	
Per lb.	$ 0 11½	.12½	.12½	14	14	

Bright Market Wire; In 100 lb. Bundles.

Nos.	6	7	8	9	10	12	14	16
Per lb.	$ [illegible]	[illegible]	[illegible]	[illegible]	.11	.11½	[illegible]	14

Coppered Market Wire; In 100 lb. Bundles.

Nos.	6	7	8	9	10	11	12	14
Per lb.	$0 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.11	.11½	.12½

NUMBERS AND SIZES OF WIRE BY STANDARD WIRE GAUGE

Table of Sizes, Weights and Lengths of Iron and Steel Wire.

Diam. Inches	Gauge No.	Diam. Inches	Pounds per Foot	Pounds per Mile	Feet per Pound	Feet per 2000 lbs.
1		500	.6625	$498.00	1.50	[illegible]
	7/0	490	[illegible]	[illegible]	[illegible]	[illegible]
15/32		468	[illegible]	[illegible]	[illegible]	[illegible]
	6/0	460	[illegible]	[illegible]	[illegible]	[illegible]
7/16		.437	[illegible]	[illegible]	[illegible]	[illegible]
	5	430	[illegible]	[illegible]	[illegible]	[illegible]
13/32		.406	.1768	[illegible]	2.28	[illegible]
	4/0	.393	.1694	[illegible]	2.41	483.5
3/8		375	.1526	[illegible]	2.68	[illegible]
	3/0	362	[illegible]	[illegible]	[illegible]	[illegible]
11/32		344	.1316	1846.48	7.60	6312
	2/0	331	.1264	1771.21	7.91	6587
5/16		312	[illegible]	[illegible]	[illegible]	[illegible]
	0	307	[illegible]	[illegible]	4.60	[illegible]
	1	283	[illegible]	[illegible]	4.[illegible]	[illegible]
9/32		281	[illegible]	[illegible]	4.78	[illegible]
	2	265	[illegible]	[illegible]	5.45	[illegible]
1/4		250	[illegible]	[illegible]	6.03	[illegible]
	3	.244	[illegible]	[illegible]	6.3[illegible]	[illegible]
	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7/32		219	[illegible]	[illegible]	[illegible]	[illegible]
	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3/16		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5/32		156	[illegible]	[illegible]	[illegible]	[illegible]
	9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	10	135	[illegible]	[illegible]	[illegible]	[illegible]
1/8		125	[illegible]	[illegible]	[illegible]	[illegible]
	11	120	[illegible]	[illegible]	[illegible]	[illegible]
	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3/32		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1/16		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	19	[illegible]	[illegible]	33.49	29[illegible]	[illegible]
	20	[illegible]	[illegible]	17.10	58.[illegible]	[illegible]

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

‡WIRE ROPE.

Nineteen Wires to the Strand. Six Strands—Hemp Core.

SWEDES IRON; BRIGHT WIRE.

Swedes Iron Rope Should Be Used for Passenger and Freight Elevators, and Inside Transmission only.

For Outside Purposes, where Rope is Exposed to Weather, Galvanized should be used.

The Wires are of the Best Quality Swedish Iron, Soft, Tough and Pliable.

Nos.	8 IN	9 IN	10 IN	10 IN
Diameter, inches	1	1	1	1
Approximate Circumference, inches	3	2¾	2½	2
Weight per foot about, oz.	25½	19¾	14⅞	10
Approximate Breaking Strain, Tons	165	118	86	6
Proper Working Load, Tons	2 50	2 25	1 70	1 20
Min. Diameter Drum or Sheave, feet	6	5 5	4 5	4
Per foot	30 25	20	16	12
	.21⅝	.18⅝	.13⅝	10

Nos	10 IN	10 IN	10 IN	10 IN
Diameter, inches	⅞	⅞	⅞	⅞
Approximate Circumference, inches	2¾	2½	2¼	2
Weight per foot about, oz.	8	6¾	5¼	4⅝
Approximate Breaking Strain, Tons	4 7	3 9	3 1	2 7
Proper Working Load	94	78	62	58
Min. Diameter Drum or Sheave, feet	3 5	3	2 5	2 5
Per foot	20 10	16½	12	07
	.09⅝	.07	.06¼	

Nos	10 IN	10 IN	10 IN
Diameter, inches	⅝	⅝	⅝
Approximate Circumference, inches	1	1	¾
Weight per foot about, oz.	2	2	1¾
Approximate Breaking Strain, Tons	2 4	1 9	1 4
Proper Working Load, Tons	48	30	22
Min. Diameter Drum or Sheave, feet	2 5	2	1 50
Per foot	10 01	08½	06½
	.00	.05⅞	.04⅝

Furnished with Wire Core at an Advance of 10% over above prices

CRUCIBLE CAST STEEL; BRIGHT WIRE

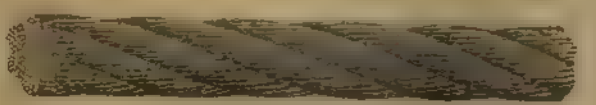
The Wire used in the construction is of the Best Quality of Crucible Cast Steel, possessing Double the Strength of Iron of the same diameter. Applicable to a Great Variety of Uses; Particularly Adapted for Service in Mines, Derricks, Hay Presses, and Inclined Planes, Cableways, Cargo and Coal Hoists, Conveyors and Skip Hoists.

Nos	8 SN	9 SN	10 SN	10 SN
Diameter, inches	1	⅞	⅞	⅞
Approximate Circumference, inches	3	2¾	2½	2
Weight per foot about, oz.	25¼	19¼	14¼	10
Approximate Breaking Strain, Tons	20	15	11	7 5
Proper Working Load, Tons	6	4 5	3 5	2 5
Min. Diameter Drum or Sheave, feet	4	3 5	3	2 5
Per foot	19 21	14	10	7
	25⅝	20	.15⅝	.11⅜

Nos	10 SN	10 SN
Diameter, inches	⅝	⅝
Approximate Circumference, inches	2¼	1¾
Weight per foot about, oz.	8	6¼
Approximate Breaking Strain, Tons	10	8 4
Proper Working Load, Tons	2	1 68
Minimum Diameter Drum or Sheave, feet	2 5	2
Per foot	8 0 12	11
	10	08

	10 SN	10 SN
Diameter, inches	½	½
Approximate Circumference, inches	1 ⅝	1¼
Weight per foot about, oz.	3½	3
Approximate Breaking Strain, Tons	4 8	3 2
Proper Working Load, Tons	96	64
Minimum Diameter Drum or Sheave, feet	1 50	1
Per foot	5 09½	09
	.07⅔	.11⅞

Furnished with Wire Core at an Advance of 10% over above prices



PATENT STEEL; BRIGHT WIRE

"Patent Steel" is made from a Fine Grade of Mild Plow Steel Wire, and Combines the Greatest Degree of Toughness, Ductility and Elasticity, Together with a very High Degree of Tensile Strength.

The Greatest Deterioration of Wire Hoisting and Running Ropes is caused by Crystallization of the Wires, Due to Bending Back and Forth over the Drums and Sheaves. The extreme flexibility of Patent Steel reduces crystallization Greatly.

Patent Steel Wire Rope is especially adapted to the use of Quarrymen, Contractors, Bridge Builders, and Miners.

‡WIRE ROPE.

Nineteen Wires to the Strand. Six Strands—Hemp Core

HOISTING; PLOW STEEL; BRIGHT WIRE

Used for Heavy Hoisting in Mines, on Derricks, Dredges, Inclined Planes, Cableways for Logging and for Ammunition Hoists, in Deep Mining Shafts and on Long Inclines where the weight of the Rope forms a large part of the Load, Plow Steel Rope is Commonly Used

Nos	8PH	9PH	10PH
Diameter, inches	1	1	1
Approximate Circumference, inches	3	2¾	2½
Weight per foot about, oz.	25½	19¼	14¼
Approximate Breaking Strain, Tons	38	29	23
Proper Working Load, Tons	7 6	5 8	4 6
Minimum Diameter Drum or Sheave, feet	4	3 5	3
Per foot	30 25	24	20
	.35⅔	28⅛	.21⅝

Nos	10PH	10PH	10PH
Diameter, inches	⅞	⅞	½
Approximate Circumference, inches	2	1¾	1½
Weight per foot about, oz.	10	8	6¼
Approximate Breaking Strain, Tons	15 5	12 2	10
Proper Working Load, Tons	3 1	2 4	2
Minimum Diameter Drum or Sheave, feet	2 5	2 25	2
Per foot	16 19	14	14
	.15⅝	.13⅛	.11⅔

HOISTING, BRIGHT WIRE

Carefully Selected High Grade Improved Plow Steel

The Strongest and Most Efficient ever produced; For service where Great Strength is required it has no equal; Particularly Adapted to use on Derricks, Dredges, Stump Pullers, Skidders and Ballast Unloaders

Nos.	1H	2H	3H	4H	5H
Diameter, inches	1	⅞	¾	⅝	½
Approximate Circumference, inches	3	2¾	2¼	2	1½
Weight per foot about, oz.	35⅛	19⅛	14¼	10	6¾
Approximate Breaking Strain, Tons	45	38	26 3	19	12 1
Proper Working Load, Tons	9	7	5 3	3 8	2 4
Minimum Diameter Drum or Sheave, feet	4	3½	3	2½	2
Per foot	30 60	38	21	23½	12
	.40⅔	36⅛	.29	.20⅓	.16

GALVANIZED CAST STEEL YACHT RIGGING

Only the Best Grade of Crucible Cast Steel is used in this Rigging, combining Great Strength with Light Weight and Small Diameter; Used for Hoists, Outhauls, Mooring and Messenger Lines.

	GR1	GR1	GR1
Diameter, inches	1	⅞	13/16
Approximate Circumference, inches	3	2¾	2½
Weight per foot about, oz.	21	19¾	16
Approximate Breaking Strain, Tons	31	26	22
Circumference inches New Manila Rope of Equal Strength	8	8	8
Per foot	30 34	26¾	22½
	.33⅜	.25	.23⅛

Nos	GR1	GR1	GR1
Diameter, inches	⅝	⅝	9/16
Approximate Circumference, inches	2¼	2	1¾
Weight per foot about, oz.	13	10¼	7
Approximate Breaking Strain, Tons	17	14	[illegible]
Circumference inches New Manila Rope of Equal Strength	7	6	5½
Per foot	20 20½	.16¼	.13
	.21	.15	[illegible]

Put up in Coils and Reels. No Extra Charge for Reel. Can Furnish Any Length Desired.

Furnished with Wire Core at an Advance of 10% over Above Prices.

Nos.	8XSN	8XSN	10XSN
Diameter, inches	1	1	1
Approximate Circumference, inches	3	2¾	2½
Weight per foot about, oz.	25½	19¼	14¼
Approximate Breaking Strain, Tons	24	20	20 2
Proper Working Load, Tons	6 50	5 0	4 04
Minimum Diameter Drum or Sheave, feet	4	3 5	3
Per foot	30 37	29	22
	30-3	.24	18¾

Nos	10XSN	10XSN	10XSN
Diameter, inches	⅞	¾	¾
Approximate Circumference, inches	2	1¾	1½
Weight per foot about, oz.	10	8	6¼
Approximate Breaking Strain, Tons	14	11 2	7 2
Proper Working Load, Tons	2 50	2 24	1 84
Minimum Diameter Drum or Sheave feet	2 5	2½	2
Per foot	10 18½	14	11½
	.13	.11⅛	10¾

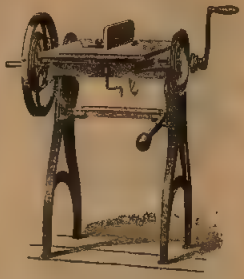
Put up in Coils and Reels. No Extra Charge for Reel. Can Furnish Any Length Desired.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

*CIRCULAR SAW MACHINES

SAWS

HAND POWER



Showing Saw with the Front Table Placed Directly Over the Saw

Especially Adapted to Shops without Power. The Extension Shaft Permits the Use of Pulley when Desired. Painted Cast Iron Frame, Fly and Belt Wheels, Crank and Idler; Steel Axles and Shafts, Polished and Tempered Tool Steel Saws for Ripping Hard or Soft Wood of Any Thickness up to 3⅛ inches and Any Width to 10 inches. Fitted with Two Self Adjusting Feed Rollers. The Table is Provided with Adjustable Gauge and Can be Lowered or Raised to Govern Depth of Cut, and by Using Two Saws Side by Side Grooving for Windows or Door Stops Can be Done.

Each

✣ **No. 2O**—With Two 10 inch Circular Saws; Rips Lumber up to 3⅛ inches Thick and to 10 inches Wide. Diameter of Fly Wheel 18 inches. Thickness of Rim 1⅜ inches; Height to Top of Table 25 inches; Height Over All 43 inches. Width of Tables 18½ inches; Width Over All 31 inches; Length Over All including Two Tables 79 inches; Net Weight Complete 190 lbs; Weight Cased 260 lbs $85 00

HAND AND FOOT POWER

COMBINED MACHINE

Painted Cast Iron Frame, Gear and Table; Top of Table Planed Smooth, Perforated Leather Belt from Drive Wheel to Mandrel Pulley Running Over a Spur or Pin Pulley, Secures Great Speed and Power. Used for Rip or Cross Cut Sawing, Rabbeting and Grooving. The Self Feed Can be Regulated for Hard or Soft, Thick or Thin Lumber and is Self Adjusting for Different or Uneven Thickness up to 3⅛ inches. The Cut Off Gauge Can be Set at Any Angle. The Speed of Saw Can be Readily Changed. The Table Can be Adjusted to Regulate the Depth of Grooves and Rabbets.

Each

✣ **No. 4H**—With Two 10 inch Saws (One Rip and One Cross Cut); Height Over All 36 inches. Size of Top 30x30 inches. Length Over, All including the Front and Back Hardwood Drop Extension Tables 90 inches; Floor Space Required 30x24 inches; Net Weight 400 lbs; Weight Crated (3 Crates), 500 lbs $128 00

STEAM POWER

✣ **No. 4P**—With Countershaft and Belt Pulley for Steam Power instead of for Hand Power; Pulley 10x2 inches; Speed of Shaft 200 Revolutions per Minute 150 00

For Carpenters, Cabinet Makers and Wood Workers

Painted Cast Iron Frame, Gear and Table for Light Ripping, Cutting to Length, Cut Off Work, etc; the Circular Saw while Remaining on its Mandrel Can be at Once Taken Out of the Way when the Scroll Saw is to be Used. The Table Can be Adjusted Up or Down to Regulate Depth of Cut.

The Circular Saws are 6 inches in Diameter and Reach 1⅜ inches Above the Table. A 7 or 8 inch Saw Can be Used if Desired. Emery Wheels up to 1 inch Face by 6 inch Diameter Can be Used on this Machine. Height Over All 27 inches. Size of Table 28x30 inches; Floor Space Required 28x30 inches.

Each

✣ **No. 10M**—With 2 Circular Saws; One Rip and One Cross Cut; Weight Boxed 335 lbs..... $77 00

✣ **No. 16CM**—With 2 Circular Saws, Scroll Saw Attachment and 12 Assorted Scroll Saws; Weight Boxed 350 lbs 85 00

✣ **No. 20CM**—With 2 Circular Saws, Scroll Saw and Boring Attachment with Self Centering Chuck; Including 12 Assorted Scroll Saws; Weight Boxed 375 lbs 110 00

✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory P. O. B. Rockford, Ill.

TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED.

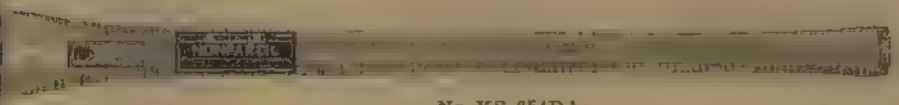
AXES.

***KEEN KUTTER* BLACK JACK*.**

DOUBLE BIT.

Soft Steel Body, Highest Grade Crucible Forged Steel Bits; HAND HAMMERED AND HAND WHITTED, EXTRA HARD HAND TEMPERED NATURAL BLACK FINISH, *KEEN KUTTER* Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KS/354DA.

SWAMPING PATTERN.

No. KS 354DA—With Nonpareil Octagon Handle No. NDX36.

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$30.00	30.50

No. KS/354DF—With Cumberland Octagon Handle No. CDXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$27 50	28.00

No. KS/354DR—With Standard Oval Handle No. SDAA.

Handled with Standard Extra Quality Machine Made Hickory Handle.

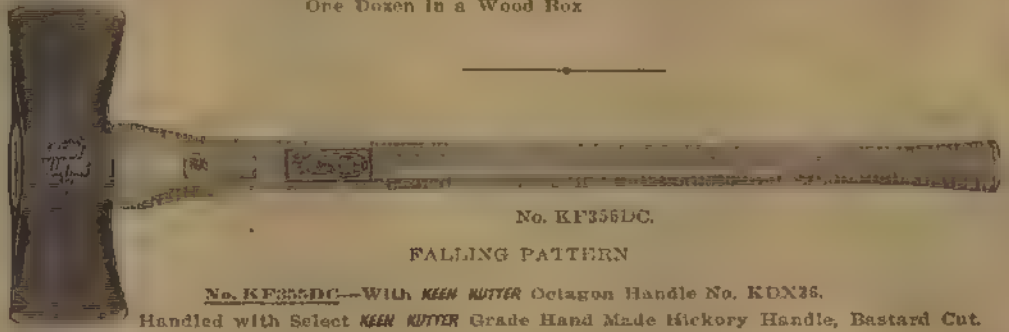
Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$28.00	28.50

One Dozen in Crate, Heads Enclosed, Handles Projecting
Wrapped in Paper and Burlapped.

No. KS/354—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	54	54
Per dozen	$22.00	22.50

One Dozen in a Wood Box



No. KF356DC.

FALLING PATTERN

No. KF356DC—With *KEEN KUTTER* Octagon Handle No. KDX36.

Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$30.50	31.00

No. KF355DH—With Cumberland Oval Handle No. CDA.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$27 50	28.00

No. KF355DJ—With Cumberland Oval Handle No. CDA.

Handled with Cumberland Third Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$27.00	27.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting,
Wrapped in Paper and Burlapped.

No. KF355—WITHOUT HANDLE.

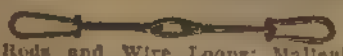
Weight each, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	54	54
Per dozen	$22.00	22.50

One Dozen in a Wood Box

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE.

Weight of Each Axe Stamped Near the Eye.

SAW RODS.



GIANT*; Extra Heavy Steel Tinned Rods and Wire Loops; Malleable Turn Buckle; Black Japanned; Extra Threaded.

Nos.	G1	G2
Length, inches	22	24
Length of Wire Loop, inches	4	4½
Weight per dozen about, lbs.	8	9
Per dozen	$1.80	1.90

CLIPPER; Polished Steel Rods, Malleable Turn Buckles, with 3½ in. Solid Steel Wire Loops. Per Dozen

No. C1—Length 22 in. Weight per doz. about 5 lbs..$1.30

DUPLEX; Polished Steel Rods; Malleable Turn Buckles, with 2½ in. Solid Steel Loops. Per Dozen

No. D1—Length 22 in.; Weight per doz. about 6 lbs..$1.80

One Dozen in a Package.

SAWS AND BUCKS.

BAY STATE*; Boys' Size; Complete with Saw.

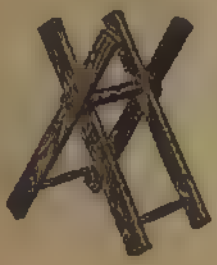
Hardwood Folding Buck, 20 in. High, 13¾ in. Wide, 13 in. Spread at Base; Hardwood Frame, with Polished Steel Blade, 22x1¼ in. and 17½ in. Clipper Tinned Rod. Buck and Frame Painted Red and Varnished.

Per Dozen Sets

No. 88—FOLDING SAW BUCK AND WOOD SAW; Weight per dozen sets about 30 lbs..$15.00

One-twelfth Dozen in a Cardboard Box; Three Dozen in a Case.

SAW BUCKS.



BAY STATE*.

Hardwood Folding Pattern, with Heavy Round Center Brace and Round Braces; Plain Finish; Malleable Iron Brackets or Stops; Stationary Center; Plain Finish; Light Weight; 1⅛x¾ in. Uprights, 28 in. Long, 13¾ in. Wide; Spread at Base 21½ in.

Per Dozen

No. BSB—BAY STATE* FOLDING SAW BUCK; Weight per dozen about 33 lbs.....$5.00

One-half Dozen in a Crate.

HAND ICE SAWS.

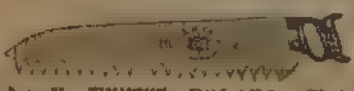
Deep Toothed Polished Steel Blade; Handle Riveted on, Teeth Set and Sharpened.

KEEN KUTTER*

Japanned Malleable Iron Handle 5⅛ in. Long, 4½ in. Wide; Highest Grade Crucible Steel, Extra Finished Blade; Length over all 30½ in.; Width at Butt 6⅛ in.; Blade 15 Gauge.

No. K—KEEN KUTTER*; LUMBERMEN'S TOOTH; 26 in. Cut. Weight per dozen about 44 lbs.....Per Dozen, $27.00

One-third Dozen in a Cardboard Box.



Iron Handle, 5 in. Long, 4 in. Wide; Saw 30 in. Long over all; Blade 5½ in. Wide at Butt, 16 Gauge on Back.

No. P—SIMMONS POLAR*; Plain Tooth; 22 in. Cut; Weight per dozen about 37 lbs.....Per Dozen, $17.00

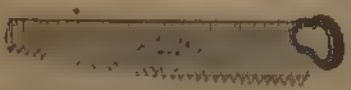
One-third Dozen in a Cardboard Box.

WOOD'S.

Tempered and Polished Tool Steel Blades 30 in. Long.

Per Dozen

No. 640—Wood Handle; Width at Handle 6½ in..$15.00



WOOD'S.

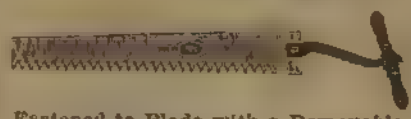
Tempered and Polished Tool Steel Blades 30 in. Long.

No. 642—Oval Malleable Iron Handle; Width 6½ in. Per Dozen $15.00 $27.00

One-third Dozen in a Cardboard Box; Weight per Dozen about 40 lbs.

POND ICE SAWS.

SIMMONS POLAR*.

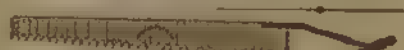


Deep Toothed Polished 11 Gauge Steel Blade; Japanned Malleable Iron Tiller Shaped Handle, with Wood Cross Bar, Fastened to Blade with a Removable Bolt and Pin; Teeth Set and Sharpened; Width at Butt 7 in.; Width at Point 5 in.

Nos.	PP4	PP4½	PP5
Length of Blade, feet	4	4½	5
Weight each about, lbs.	11	12	13
Each	$5.50	6.00	6.50

Each

No. TH—Ice Saw Handle for No. PP Ice Saws; Malleable Iron Stem, Japanned, 13⅛ in. Long, with 14½ in. Hardwood Cross Bar; Weight each about 3 lbs....$1.60



WOOD'S.

Tempered and Polished Tool Steel; Painted Wood Tiller Handle, 20 in. long; Width at Handle 7¼ in.

	Each
WITH CASE	
No. 420—4 ft.	$3.00
No. 421—4½ ft.	3.25
No. 422—5 ft.	3.50
WITHOUT CASE	
No. 425—4 ft.	$4.50
No. 426—4½ ft.	4.75
No. 427—5 ft.	5.00

The blade is tempered for long service and is patent-pointed. The teeth are extra long and have a large level, causing them to cut very quickly. The iron handle is excellent in pattern and is reversible, so that the wood handle can be put on either end with the blade or at a right angle, as may be desired.

Unless instructions are given to the contrary, saws with painted cases, having leather strap, will be shipped on orders.

Five feet is the best length for fast work where the depth of water will permit its use.

Weight each about 12 lbs. Packed Loose.

MITER BOXES.

KEEN KUTTER*, Complete with Saw.

Cast Iron, Nickel Finish; Ribbed Back and Bottom; Ground Surface; Saw Guides with Automatic Support by which Saw is supported above work. Has Graduated Arc in Front, Marked in Degrees, Angles and Sides; Furnished with a Device that will Lock at any Degree or Angle; Has Notches to Lock at Positive Angles commonly used; To Extend Post to take in Larger Work, loosen the Hexagon Nut on the Front Bar; Provided with Two Top Clamps for holding Work in place; Also Two End Guides which can be used for holding Work in place or as Length Gauges.

This Box will take any Standard Saw such as KEEN KUTTER* or Disston.

Each

No. K328—KEEN KUTTER*; Size of Saw 8x28 in.; Capacity at Right Angles 10⅛ in.; Capacity at Miter 7 in.; Extreme Width of Base 6½ in.; Length over all 20 in.; Height of Back 3½ in.; Width of Bottom 4⅝ in.; Legs 2½ in. Long; Weight each, with Saw, about 26 lbs.....$22.00

One in a Wood Box

LANGDON ACME; Complete with Disston's Miter or Back Saw; Cast Iron Frame, Painted Dark Brown; Corrugated Back (allowing saw-dust to fall through); Checkered Bed Plate (preventing slipping); Malleable Iron Lever; Patent Extension Lever; Capacity 10⅛ in. at Right Angles, 7 in. at Miter; Adjustable Saw Guides provided with Elevators so the Saw is held stationary above the work when desired; Spring Lever Clamping Device to hold stock; Angle adjusted on Graduated Arc in front of Box and Notched to lock at Regular Angles.

No. 72—Size 2; Saw 4x24 in.; Extreme Width of Base 6¼ in.; Weight each about 38 lbs.....$20.50

No. 73—Size 3; Saw 4x36 in.; Extreme Width of Base 6¼ in.; Weight each about 38 lbs.....21.00

No. 74—Size 2½; Saw 5x28 in.; Extreme Width of Base 7 in.; Weight each about 40 lbs.....21.00

Each Box and its accompanying Saw are adjusted to be used together.

One in a Wood Box.

WOOD SAWS.

STANDARD

Hardwood Frame, Unpainted, Straight Brace, with 26½ in. Long Arm, 22 in. Upper Steel Stretcher Rod; Complete with 30 in. Blade, as described

Per Dozen

No. S 01—With No. E910 OAK LEAF Common Tooth Blade $8.50

No. S 02—With No. E930 OAK LEAF Lightning Tooth Blade 10.00

No. S 03—With No. E910 OAK LEAF* Champion Tooth Blade 10.00

No. S 98—With No. B BAY STATE* Common Tooth Blade 8.50

No. S 08—With No. BS BAY STATE* Common Tooth Blade 8.00

No. S/85—With No. S SAMSON Common Tooth Blade 8.50

No. S 86—With No. SC SAMSON Champion Tooth Blade 10.00

One-half Dozen in a Box; Weight per Dozen about 45 lbs.

WOOD SAW FRAMES.

Extra Select Maplewood; Extra Heavy Double Riveted Brace, with 26½ in. Long Arm.

Per Dozen

No. K00—KEEN KUTTER BLACK JACK*; Unpainted, Smooth Bolted Finish; Weight per dozen about 40 lbs. $5.00

No. K70—KEEN KUTTER BLACK JACK*; Painted Vermilion and Varnished, Weight per dozen about 40 lbs. 5.00

No. K80—KEEN KUTTER*, Painted Dark Blue and Varnished; Weight per dozen about 40 lbs. 5.00

One-half Dozen in a Wood Box.

OAK LEAF*

Select Hardwood; Single Riveted Brace, with 26½ in. Long Arm.

Per Dozen

No. E50—OAK LEAF*, Painted, Tied and Varnished, Weight per dozen about 45 lbs. $4.50

One-half Dozen in a Box

SAW FRAME ARMS.

Per Dozen

No. E51—LONG ARMS; For No. E50 Frames; 26 in. Long; Weight per dozen about 10 lbs. $1.70

No. E51/S—SHORT ARMS; For No. E50 Frames, 20 in. Long; Weight per dozen about 8 lbs. 1.70

SAW FRAME CENTER BRACES.

OAK LEAF*

Per Dozen

No. 165 C—CENTER BRACES; Single Riveted, For No. E50 Frames, 23¼ in. Long; Weight per dozen about $1.70

Packed Loose.

WOOD SAW FRAMES.

BAY STATE*.

Hardwood, Straight Brace, with 26½ in Long Arm.

Per Dozen

No. B1—BAY STATE*; Unpainted, Bolted Finish, Wt. per dozen about 36 lbs. $3.50

One-half Gross in a Case.

SAW FRAME ARMS.

BAY STATE*.

Per Dozen

No. B1—LONG ARMS; For No. B1 Frames 26½ in. Weight per dozen about 9 lbs. $1.40

No. BS—SHORT ARMS, For No. B1 Frames, 20 in. Weight per dozen about 7 lbs. 1.40

SAW FRAME CENTER BRACES.

BAY STATE*.

Per Dozen

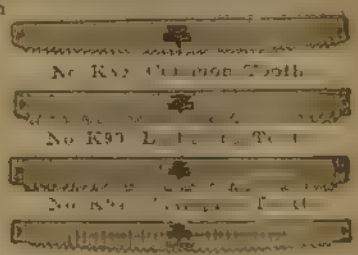
No. BC—CENTER BRACES Plain; For No. B1 Frames 23¼ in. Long; Weight per dozen about 7 lbs. $1.40

Packed Loose.

WOOD SAW BLADES.

KEEN KUTTER*

Highest Grade Crucible Spring Steel, Extra Thin Back, Patent Ground and Tempered, Extra Set and Filed, Length 30 in.



No. K97 Common Tooth

No. K97 Lightning Tooth

No. K97 Champion Tooth

No. K95 Peg Tooth.

Per Dozen

No. K80—KEEN KUTTER*; Polished; COMMON TOOTH; Rose Belly; Assorted 4½ to 5½ Points; Width at Center 2¾ in. $8.00

No. K90—KEEN KUTTER*; Polished; LIGHTNING TOOTH; Straight Breast; Width at Center 2¾ in. 8.00

No. K80—KEEN KUTTER*; Polished; CHAMPION TOOTH; Straight Breast, Width at Center 2¾ in. 8.00

No. K97—KEEN KUTTER BLACK JACK*; Natural Color; COMMON TOOTH; Bow Belly, Extra Deep Cut; Width at Center 2¾ in. 8.00

No. K98—KEEN KUTTER*; Blued; PEG TOOTH; Bow Belly, Extra Deep Cut; Width at Center 2¾ in. 8.50

No. K94—KEEN KUTTER EXPERT*; Blued; CHAMPION TOOTH; Straight Breast; Width at Center 2¾ in. .. 12.00

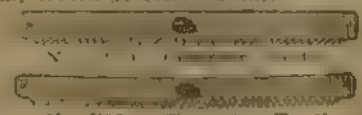
Weight per Dozen about 8¾ lbs.

No. K85—KEEN KUTTER EXPERT*; Blued; PEG TOOTH; Rose Belly; Extra Deep Cut, Width at Center 1¾ .. 11.00

Weight per Dozen about 4¾ lbs.

OAK LEAF*

Special Crucible Spring Steel, Polished; Thin Back, Patent Ground and Tempered, Carefully Set and Filed, Length 30 in.; Width at Center 2¾ in.



No. E930, Champion Tooth.

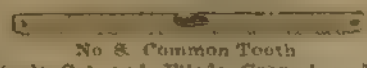
Per Dozen

No. E910—OAK LEAF* COMMON TOOTH; Straight Breast; Assorted 4½ to 5½ Points $8.50

No. E930—OAK LEAF*; LIGHTNING TOOTH; Straight 8.50

No. E930—OAK LEAF* CHAMPION TOOTH; Straight 8.50

Weight per Dozen [illegible] lbs.



No. 8, Common Tooth

Spring Steel; Set and Filed; Ground and Tempered; Length 30 in.

Per Dozen

No. 8—SAMSON; Polished; COMMON TOOTH; Straight Breast; Assorted 4½ to 5½ Points; Width at Center 2 in., Weight per dozen about 5½ lbs. $5.50

No. SC—SAMSON; Polished; CHAMPION TOOTH; Straight Breast; Width at Center 2 in.; Weight per dozen about 5½ lbs. 6.50

No. B—BAY STATE*; Blued; COMMON TOOTH; Straight Breast, Thin Back; Assorted 4½ to 5½ Points; Width at Center 1¾ in.; Weight per dozen about 4¾ lbs. 4.50

No. BS—BAY STATE*; Polished; COMMON TOOTH, [illegible] Assorted 4½ to 5½ Points; Width at Center [illegible] Weight per dozen about 4¾ lbs. ... 5.50

DISSTON

Crucible Spring Steel; Thin Back; COMMON TOOTH, Bow Belly; Ground and Tempered; Set and Filed; Length 30 in.

Per Dozen

No. 8—DISSTONS, Polished; 4½, 5, 5½ and 6 Points [illegible] at Center 2¾ in.; Weight per dozen about 6½ lbs. $10.00

No. 45B—DISSTON [illegible] Assorted [illegible] at Center 1¾ [illegible] Weight per dozen about 4¾ lbs. 10.00

One Dozen in a Package.

USE E. C. SIMMONS' KEEN KUTTER CARPENTERS' SPECIAL SLIM TAPER FILE for Filing all except PEG TOOTH BLADES, (Nos. 55, 97 and 98), USE KEEN KUTTER 5 IN. CANT SAW FILE.

COAL MINERS' PICKS.

BEALL BROS.'—ALTON PATTERN
Soft Steel Body, with Crucible Forged Steel Points, Oil Tempered, Japanned Finish.

BEALL BROS.' UNDERMINING; SHORT EAR.

Nos.	BUS 1¼	BUS 1½	BUS 2	BUS 2½	BUS 3½
Wgt. each, lbs	1¼	1½	2	2½	3½
Lgth. over all in.	14¾	15	15½	17	18½
Per doz.	$9.50	9.50	9.50	9.50	9.50

BEALL BROS.' UNDERMINING; LONG EAR.

Nos.	BULE¼	BULE1½	BULE2	BULE2½	BULE3
Weight each, lbs.	1¼	1½	2	2½	3
Lgth. over all, in.	15¾	15½	16	17	18
Per dozen	$10.00	10.00	10.00	10.00	10.00

BEALL BROS.' CUTTING; SHORT EAR.

Nos.	BCS 2¼	BCS 2½	BCS 3	BCS 3½
Weight each, lbs.	2¼	2½	3	3½
Length over all in.	15	15½	16	16½
Per dozen	$9.50	9.50	9.50	9.50

BEALL BROS.' CUTTING, LONG EAR.

Nos.	BCLE2¼	BCLE2½	BCLE3	BCLE3½
Weight each, lbs.	2¼	2½	3	3½
Length over all, in.	15	15	16	16½
Per dozen	$10.00	10.00	10.00	10.00

Packed Loose.

PICKS.

*KEEN KUTTER**

Soft Steel Body, Adze Eye, with Extra Full Weight Highest Grade Crucible Steel Points, Oil Tempered.

*KEEN KUTTER** RAILROAD Axe Finish; Painted Red; Polished Bit and Point.

Nos.	KR45	KR56	KR67	KR78
Weights Assorted, lbs.	4 to 5	5 to 6	6 to 7	7 to 8
Length over all, in.	23	24	25	26
Weight per doz. about, lbs.	54	66	78	90
Per dozen	$11.50	12.50	13.00	14.00

*KEEN KUTTER** DRIFTING; Oil Finish

Nos.	K02	K03	K04
Weight each, lbs.	3	3½	4
Length over all, in.	22	23	24
Weight per doz. about, lbs.	48	54	60
Per dozen	$10.00	11.00	12.00

Two Dozen in a Case.

OAK LEAF*

Soft Steel Body, Adze Eye, with Full Weight Special Crucible Steel Points, Oil Tempered.

OAK LEAF* RAILROAD Axe Finish; Painted Red; Polished Bit and Point

Nos.	LR45	LR56	LR67	LR78
Weights Assorted, lbs.	4 to 5	5 to 6	6 to 7	7 to 8
Length over all, in.	23	24	25	26
Weight per doz. about, lbs	54	66	78	90
Per dozen	$8.00	8.50	9.00	9.50

OAK LEAF* DRIFTING; Oil Finish

Nos.	L02	L03	L04
Weight each, lbs.	3	3½	4
Length over all, in.	22	23	24
Weight per doz. about, lbs	48	54	60
Per dozen	$7.50	8.00	8.50

OAK LEAF* ORE; Axe Finish, Painted Red; Polished Bit and Point

No. L087—Weights Assorted, 6 to 7 lbs., Length over [illegible] in., Weight per doz. about 78 lbs., Per Dozen, $8.50

OAK LEAF* QUARRY OR STONE; Axe Finish; Painted Red; Polished Points

No. EY—ADZE EYE; Weight Assorted, 6 to 7 lbs., Length over all 20 in., Weight per dozen about 78 lbs. ..... Per Dozen, $9.50

No. ES—PLAIN EYE. Weight Assorted, 6 to 7 lbs.; Length over all 14 in.; Weight per dozen about 78 lbs. ..... Per Dozen, $14.00

Two Dozen in a Case.

PICKS.

Soft Steel Body, Adze Eye, Special Steel Polished Bit and Point, Hardened.

BAY STATE*, RAILROAD Axe Finish, Japanned

Nos.	BR45	BR56	BR67	BR78
Weights Assorted, lbs.	4 to 5	5 to 6	6 to 7	7 to 8
Length over all, in.	23	24	25	26
Weight per doz. about, lbs.	54	66	78	90
Per dozen	$8.00	8.50	9.00	9.50

Solid Forged Crucible Steel, Adze Eye; Hardened Points; Oil Finished

VERONA DRIFTING, Oil Finish

Nos.	V3	V4
Weight each, lbs.	3	4
Length over all, in	22	23
Weight per doz. about, lbs.	60	64
Per dozen	$14.00	15.50

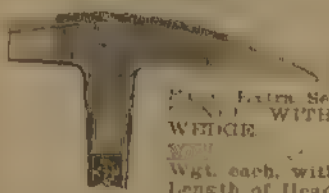
‡STANDARD; TAMPING; Oil Finish, with 2 to 2½ Inch Tamping End

Nos.	S767	S778	S788
Weights Assorted, lbs.	6 to 7	7 to 8	8 to 9
Length over all, inches	23½	25½	26½
Weight per dozen about, lbs.	78	90	102
Per dozen	$9.50	10.00	10.50

Two doz. in a Case

PROSPECTING PICKS.

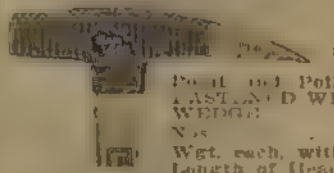
*KEEN KUTTER** Handled Prospecting.



Highest Grade Crucible Steel; Adze Eye Hardened [illegible] Gold Eye; Polished Point, Poll and [illegible] Extra Select Hickory Handle, FASTENED WITH OUR SIMMONS PATENT WEDGE.

Nos.	K1	K2
Wgt. each, without Hdl., oz.	16	21
Length of Head, in.	7½	8
Length over all, in.	[illegible]	[illegible]
Weight per doz. about, lbs.	[illegible]	[illegible]
Per dozen	$16.50	17.50

OAK LEAF* Handled Prospecting.



Special Crucible Steel, Adze Eye; Hardened Point and Poll; Fire Bronzed Body and Eye. Polished Point and Poll; Select Hickory Handle, FASTENED WITH OUR SIMMONS PATENT WEDGE.

Nos.	L1	L2
Wgt. each, without Hdl., oz.	15	21
Length of Head, in.	7½	8
Length over all, in.	12	13
Weight per doz. about, lbs.	22	24
Per dozen	$15.50	16.50

One-half doz. in a Box

POLL PICKS.

*KEEN KUTTER**, Joplin Pattern, For Lead and Zinc Mining; Extra Heavy.

Soft Steel Body; Adze Eye; Extra Full Weight; Highest Grade Crucible Steel Point; Octagon Poll; [illegible]

No. K6—Weight each 6 lbs.; Length over all 17 in.; Weight per dozen about 65 lbs. ..... Per Dozen, $17.00

Packed Loose

OAK LEAF*; Regular Light Pattern.

Soft Steel Body; Adze Eye; Full Weight; Special Crucible Steel Point; Octagon Poll; Oil Tempered; Oil Finish.

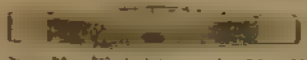
No. LP2—Weight each 4 lbs.; Length over all 14 in.; Weight per dozen about 54 lbs. ..... Per Dozen, $10.50

Two doz. in a Case.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

MILL PICKS.

STANDARD.



Solid Forged Steel, Hardened Polished Bits; Axe Finish; Body Painted Red.

No. M—Weight each 2¼ lbs. Width of Bit 1¼ in. Length over all 10 in.; Weight per doz. about 2 lbs. ..... Per Dozen, $18.50

Packed Loose.

PICK EYES.

OAK LEAF* Special Steel Drifting Pick Eyes or Centers.

Soft Steel Body, Adze Eye; Size of Eye 3x1⅛ in., Ready for Welding on Steel Points.

Nos.	EE2	EE3	EE1
Weight each, lbs.	4	4½	5
Length over all, in.	10	10	13
Weight per doz. about, lbs.	48	48	60
Per dozen	$5.80	6.40	6.90

The above Eyes Match in Size and Grade the Eyes used in making Our KEEN KUTTER* and OAK LEAF* Drifting Picks

Packed Loose.

MATTOCKS.

No. KL. KEEN KUTTER* No. KP

Soft Steel Body, Adze Eye, with Extra Full Weight Highest Grade Crucible Steel Bits and Points, Polished and Tempered, Hatchet Finish; Painted Blue

Per Dozen

No. KJ—KEEN KUTTER* JUNIOR, LIGHT SHORT CUTTER; Weight each 4 lbs.; Width of Hoe 3 to 3¼ in., Width of Cutter 2⅛ to 2⅜ in., Length over all 13¾ in. to 14 in., Weight per doz. about 54 lbs. $15.00

No. KM—KEEN KUTTER*, MEDIUM; Weight each 5 lbs.; Width of Hoe 3¼ to 3½ in.; Width of Cutter 2⅛ to 2⅜ in.; Length over all 14¼ to 14½ in.; Weight per doz. about 60 lbs. $16.00

No. KS—KEEN KUTTER* SHORT CUTTER; Weight each 5½ lbs.; Width of Hoe 4 to 4¼ in.; Width of Cutter 3¼ to 3½ in.; Length over all 15¼ to 15½ in.; Weight per doz. about 72 lbs. $16.00

No. KL—KEEN KUTTER*, LONG CUTTER; Weight each 6 lbs.; Width of Hoe 4 to 4¼ in.; Width of Cutter 3¼ to 3½ in.; Length over all 17 to 17¼ in.; Weight per doz. about 78 lbs. 16.50

No. KP—KEEN KUTTER*, PICK; Weight each 6 lbs.; Width of Hoe 4 to 4¼ in.; Length of Hoe 8½ to 8¾ in., Length of Pick End 8¼ to 8½ in.; Weight per doz. about 78 lbs. $16.50

No. EJ. OAK LEAF* No. EP.

Soft Steel Body, Adze Eye, with Full Weight Special Steel Bits and Points, Polished and Tempered, Axe Finish, Painted Red.

Per Dozen

No. EJ—OAK LEAF*, JUNIOR, SHORT CUTTER; Weight each 4 lbs.; Width of Hoe 3¼ in.; Width of Cutter 2⅛ in.; Length over all 13½ in.; Weight per doz. about 54 lbs. $9.50

No. EK—OAK LEAF*, SPECIAL LIGHT PATTERN, Weight each 3 lbs.; Width of Hoe 2¾ in.; Width of Cutter 2 in.; Length over all 13½ in.; Weight per doz. about 40 lbs. $9.50

No. ES—OAK LEAF*, SHORT CUTTER; Weight each 5½ lbs.; Width of Hoe 4¼ in.; Width of Cutter 3 in.; Length over all 16¼ in.; Weight per doz. about 72 lbs. $9.50

No. EL—OAK LEAF*, LONG CUTTER; Weight each 6 lbs.; Width of Hoe 4¼ in.; Width of Cutter 3 in.; Length over all 17¾ in.; Weight per doz. about 78 lbs. $10.00

No. EP—OAK LEAF*, PICK; Weight each 6 lbs.; Width of Hoe 4¼ in.; Length of Hoe 8½ in.; Length of Pick End 8½ in.; Weight per doz. about 78 lbs. $10.00

Soft Steel Body, Adze Eye, Special Steel Bits; Painted Black, with Polished and Tempered Bits.

Per Dozen

No. SSC—SUWANNEE*, LIGHT SHORT CUTTER; Weight each 4 lbs.; Width of Hoe 3¼ in.; Length of Hoe 7 in.; Width of Cutter 2⅛ in.; Length of Cutter 4⅛ in., Weight per doz. about 54 lbs. $8.00

No. OSC—OZARK*, LIGHT SHORT CUTTER; Weight each 3 lbs.; Width of Hoe 3 in.; Length of Hoe 6¼ in.; Width of Cutter 2⅛ in.; Length of Cutter 4 in.; Weight per doz. about 42 lbs. $8.00

Two Dozen in a Case.

MATTOCKS.

STANDARD.

No. SP.

Soft Steel Body, Adze Eye; Special Steel Bits, Polished and Tempered; Axe Finished; Japanned.

Per Dozen

No. SS—STANDARD, SHORT CUTTER; Weight each 5 lbs.; Width of Hoe 3¼ in.; Width of Cutter 2⅛ in.; Length over all 14¾ in.; Weight per doz. about 66 lbs. $7.50

No. SL—STANDARD, LONG CUTTER; Weight each 5 lbs.; Width of Hoe 3½ in.; Width of Cutter 2⅛ in.; Length over all 16¾ in.; Weight per doz. about 66 lbs. $7.50

No. SP STANDARD PICK; Weight each 5 lbs. Width of Hoe 4 in.; Length of Hoe 8 in. Length of Pick End 8 in.; Weight per doz. about 78 lbs. $7.50

HUNT'S

No. HS.

Soft Steel Body, Adze Eye; Special Steel Bits Polished and Tempered, Axe Finished; Japanned.

Per Dozen

No. HS HUNT'S SHORT CUTTER; Weight each 5 lbs.; Width of Hoe 4⅛ in.; Width of Cutter 3⅜ in., Length over all 16 in., Weight per doz. about 66 lbs. $27.00

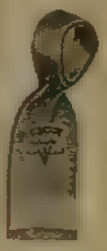
No. HL—HUNT'S LONG CUTTER; Weight each 5½ lbs.; Width of Hoe 4⅛ in.; Width of Cutter 3⅜ in.; Length over all 17 in.; Weight per doz. about 72 lbs. $27.00

Two dos. in a Case

HOES.

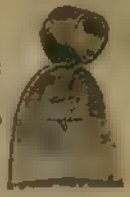
KEEN KUTTER*

Soft Steel Body, with Extra Full Weight Highest Grade Crucible Steel Bit, Polished and Tempered, Axe Finish, Painted Blue.



KEEN KUTTER* GRUB; Oval Adze Eye.

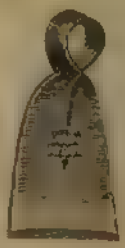
Nos.	K0	K1	K2
Width of Cutter, inches	3½	3¾	4
Length over all, inches	10½	10¾	11⅛
Weight per doz. about, lbs.	36	42	48
Per dozen	$11.00	11.50	12.00



KEEN KUTTER* HAZEL ROUND ADZE EYE, Width of Cutter 3 in.; Length over all 8¾ in.

Per Dozen

No. KHH—Weight per doz. about 42 lbs $12.00



KEEN KUTTER* PALMETTO. OVAL ADZE EYE; Width of Cutter 6½ in., Length over all 13 in.

Per Dozen

No. KPH—Weight per doz. about 70 lbs $16.00

FOR SAGE BRUSH ONLY.

Soft Steel Body, with Highest Grade Crucible Steel Bit, Polished and Tempered; Axe Finish, Painted Blue.

KEEN KUTTER*; SAGE BRUSH Extra Thin Bit

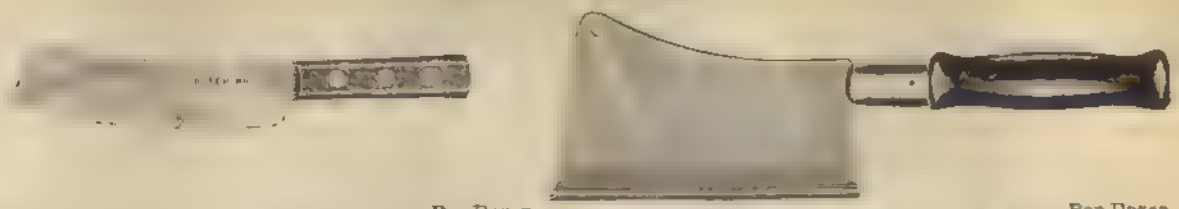
OVAL ADZE EYE, Width of Cutter 4½ in.; Length over all 11 in.

Per Dozen

No. KSB—Weight per doz. about 60 lbs $15.00

Two Dozen in a Case.

KITCHEN CLEAVERS



		Per Dozen
No. 8B	8 in. Cast Steel Blade, Beechwood Handle, Riveted, Weight Per Dozen 9½ Lbs.	$ 5.50
		9.00
No. 10B	10 in. Cast Steel Blade, Beechwood Handle, Riveted, Weight Per Dozen 11 Lbs.	7.00
		11.00

One-half Dozen in a Box

		Per Dozen
No. 55	6½ in. Heavy Tool Steel Blade Welt Tempered Steel Ferrule, Black Rubberoid Handle Riveted to Blade, Length Over All 12 in.	$9 00

Weight Per Dozen 12 Pounds

One-half Dozen in a Box

BUTCHERS' CLEAVERS

BEATTY'S NEW YORK PATTERN

Solid Cast Steel Blade, Flat Applewood Handle, Riveted, Steel Ferrule

Nos.	036	037	038	039	040
Length of Cut, Inches	6	7	8	9	10
Weight Per Dozen, Lbs.	28	32	38	46	60
Per Dozen	$14.00	15.00	17.00	20 00	25 00
	18 70	20 00	22 70	26 80	30 70

One-half Dozen in a Box

BUTCHERS' LAMB CLEAVERS

BEATTY'S NEW YORK PATTERN

Solid Cast Steel Blade, Riveted Flat Hardwood Handle, Steel Ferrule

Nos.	066	067	068
Length of Cut, Inches	6	7	8
Weight Per Dozen, Lbs.	18	22	24
Per Dozen	$12.00	13.50	15 00
	16 00	18 00	20 00

One Dozen in a Wooden Box

BUTCHERS' LAMB SPLITTERS

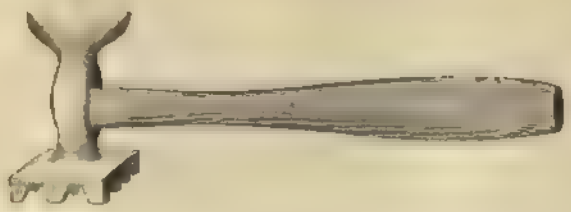
BEATTY'S NEW YORK PATTERN

Solid Cast Steel Blade, Riveted Flat Hardwood Handle, Steel Ferrule	Per Dozen
No. 075—10 in. Cut, Weight Per Dozen 18 Lbs.	$19 00
	25 35

One Dozen in a Wooden Box

HUEY & PHILP HARDWARE COMPANY.

STEAK HAMMERS



No. 3—Combined Steak Hammer and Ice Hatchet, Tinned Iron Head, Varnished Hardwood Handle — Per Dozen . . $4 50
Weight Per Dozen 8 Pounds
One-half Dozen in a Box

MEAT HOOKS

TO DRIVE

Wrought Steel, Tinned, Forged Point

Nos.	12	13
Diameter of Steel, Inches	¼	⅜
Length of Tang, Inches	1¾	2
Length of Drop, Inches	2¼	2½
Hook Projects, Inches	2	2½
Weight Per Gross, Lbs	10	16
Per Gross	$3.94	5.20
	3.50	5.00

One-half Gross in a Box

TO SCREW

Wrought Steel, Tinned, Forged Point

Nos.	22	23
Diameter of Steel Inches	¼	⅜
Length of Thread, Inches	1⅝	1⅞
Length of Drop, Inches	2¼	2½
Hook Projects, Inches	2	2½
Weight Per Gross, Lbs	10	16
Per Gross	$3.94	5.20
	4.50	6 00

One-half Gross in a Box

BAR

Wrought Steel, Tinned, Forged Point

Nos.	24	26	22	28
Size of Steel, Inches	⅜	⅜	⅜	½
For Bar, Inches	2	2	2	2
Length, Inches	4	4	4¼	5
Hook Projects, Inches	2½	2½	2¾	3¼
Weight Per Dozen, Lbs	3	4½	6¾	9½
Per Dozen	$1.20	1 50	1 80	2.00

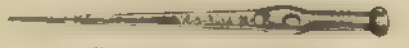
One Dozen in a Box

BUTCHERS' BLOCK PINS

Without Head

	Per Dozen
No. 3—17 in Long, ½ in Tinned Forged Steel, Weight Per Dozen 8 Lbs	$5.50
	7 00
No 4—16 in Long, ½ in Tinned Forged Steel, Weight Per Dozen 6 Lbs	4.00
	7.00

One-half Dozen in a Package



With Rounding Head

	Per Dozen
No. 1 18 in Long, ½ in Forged Steel, Polished, Weight Per Dozen 9 Lbs	$10 00
	15 00
No. 2- 18 in Long, ½ in Forged Steel, Tinned, Weight Per Dozen 9 Lbs	8 00
	9 00

One-half Dozen in a Package

The "Belus" Reflex. No. 2968.

Sizes, ¼ Plate (4¼ × 3¼ in.) or Post-card (5½ × 3½ in.)

A really High grade Reflex Camera.

Made of specially selected, well seasoned mahogany in the best workmanship.

Self capping, Focal Plane Shutter, working up to $\frac{1}{1000}$th part of a second.

Also for time exposures.

For Horizontal or Vertical Pictures.

Reflector is Spring-raised and released by Pressure Knob in front of Camera.

Without Lens.	Prices. Ordinary Model.	Special Tripod Model, made of Teak, and Brass Bound.
¼ Plate Size	£11 : 11 : 0	£17 : 17 : 0
Post card ,,	14 : 0 : 0	27 : 0 : 0

Any standard make of Lens supplied at Manufacturers' Prices.

The "Guinea" Camera. No. 2969.

For 12 Plates.

Size, ¼ Plate (4¼ × 3¼ in.).

Exposed Plates can be removed without interfering with unexposed Plates.

Rapid Achromatic Lens.

Rack and Pinion Focussing, with Engraved Scale.

Everset Shutter, with Countersunk Release. Brilliant Finder.

Price, **£1 : 1 : 0**

Film Sheaths to enable Films to be used, **4/6** extra.

Canvas Case for Camera, with Shoulder Strap, **2/6** extra.

Plates. No. 2970.

Various Makes :—Royal Standard, Barnet, Ilford, Imperial, Gem, Wellington, Paget, etc.

Speeds Ordinary, Rapid, Extra Rapid, Special Extra Rapid **Types** .—Lantern, Process, Ordinary, Orthochromatic

Prices per dozen.	2½ × 1⅝ in. (6 × 4½ c/m)	3⅛ × 2⅜ in.	¼ Plate, 3¼ × 4¼ in	5 × 4 in. or 5⅛ × 3⅝ in. (Post card.)	6½ × 4¾ in., ½ Plate	8½ × 6½ in., 1/1 Plate
	-/6	-/9	1/-	1/7	2/3	4/3

Films. No. 2971.

Flat :—B. J. Edwards or Ilford. ¼ Plate (4¼ × 3¼ in.), 2/- per doz.

Roll Films :—Ensign or Kodak.

Width of Film.	Size of Picture.	Price per Spool 12 Exposures.	6 Exposures.
1⅝ in.	2¼ × 1⅝ in.	1/2	-/7
2¼ ,, *	2⅝ × 2¼ ,,	—	-/7
2¼ ,,	3⅛ × 2¼ ,,	1/9	-/11
3¼ ,,	4¼ × 3¼ ,,	3/-	1/6
		10 Exposures.	
3¼ ,,	5⅛ × 3¼ ,,	3/-	1/9

OUR WATCHWORD FAMOUS QUALITY DIAMOND R. MELHUISH, LTD.

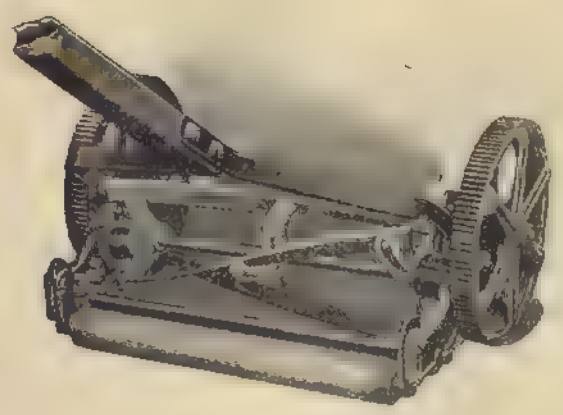
OUR WATCHWORD FAMOUS QUALITY DIAMOND R. MELHUISH, LTD.

Lenses, Printing Papers, and all other accessories according to requirements

A large and varied Stock of Machines and Tools for Woodworkers.

LAWN MOWERS

BEN HUR, PLAIN BEARING



9 in. Drive Wheels, Three Tool Steel Knives, 5¾ in. Cylinder

Adjustable Cutter Bar. An Excellent Open Wheel Mower of a Popular Type and a Good Seller.

Built with a Strong and Rigid Frame, Painted Light Green with Gold Decorations

Width of Cut, Inches.....	12	14	16
Weight Each, Boxed, Lbs..	47	50	54
Each	$6.00	6.50	7.00

One in a Box

BUCKEYE SPECIAL, PLAIN BEARING

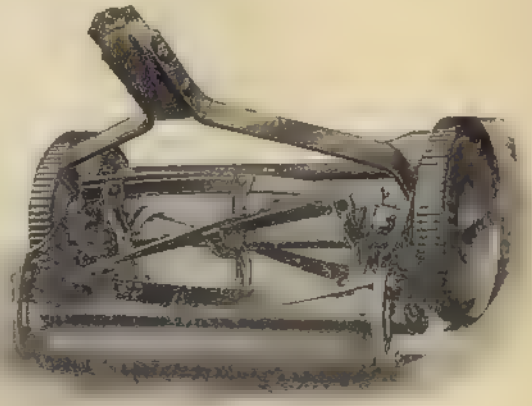
8 in. Drive Wheels, Four Tool Steel Knives, 6 in. Cylinder

Stationary Cutter Bar, Adjustable Cylinder, Unbreakable Steel Side Plates

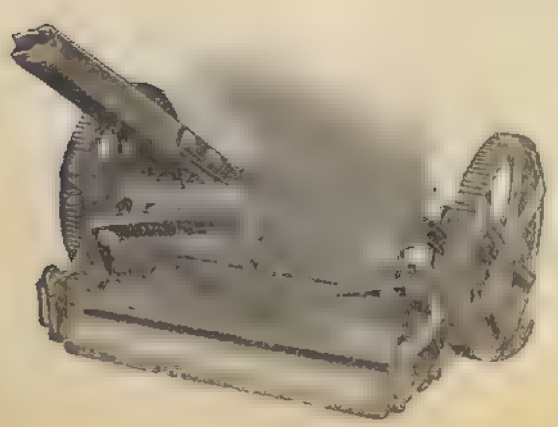
A Very Durable and Light Running Mower. Painted Nile Green with Gold Stripes. Wheels have Gold Name Plate and Red Center.

Width of Cut, Inches.....	12	14
Weight Each, Boxed, Lbs.....	44	46
Each	$7.50	8.00

One in a Box



GOLD MEDAL, BALL BEARING



10 in. Drive Wheels, Four Tool Steel Knives, 6 in. Cylinder

Adjustable Cutter Bar. A Strictly High Grade Mower with First Quality Steel Balls, Cups and Cones. Dust Proof Caps

Strong and Well Built Frame. The Side Plates and Cutter Bar are Machined where they are Joined Together. Finished in Aluminum and Gold Bronze, with Artistic Trimmings

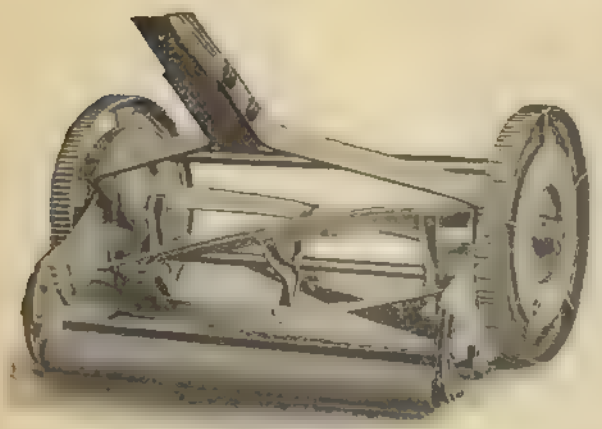
Width of Cut, Inches.....	14	16	18
Weight Each, Boxed, Lbs...	52	56	60
Each	$10 00	10 50	11.00

One in a Box

HUEY & PHILP HARDWARE COMPANY.

LAWN MOWERS

BUCKEYE HIGH WHEEL, PLAIN BEARING



10½ in. Drive Wheels, Four Tool Steel Knives, 6 in. Cylinder

Stationary Cutter Bar, Adjustable Reel, Unbreakable Stamped Steel Side Plates, Combination Pinion and Clutch with Two Clutch Pins

Especially Constructed for Cutting High Grass and for Use on Large Lawns and Parks where a Mower is Used Constantly

Painted with Nile Green Enamel Paint, with Letters and Stripes of Gold. Wheels Nile Green with Red Name Plate and Gold Center.

Width of Cut, Inches.....	14	16
Weight Each, Boxed, Lbs....	56	59
Each	$10.50	11.00

One in a Box

BUCKEYE STANDARD, BALL BEARING

10 in. Drive Wheels, Four Tool Steel Knives, 6 in. Cylinder

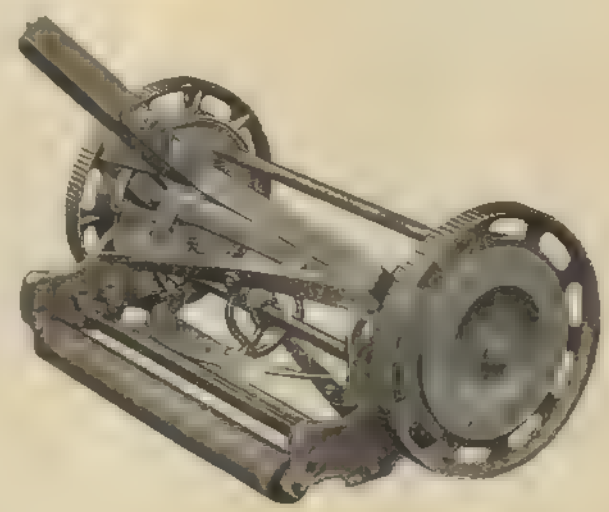
Adjustable Cutter Bar, Ball Bearing Cones Turned from Bar Tool Steel and Accurately Adjusted

This Mower is Especially Intended for Hard Continuous Service.

Artistically Finished in Silver and Gold Bronze. Wheels have Gold Name Plate and Blue Center.

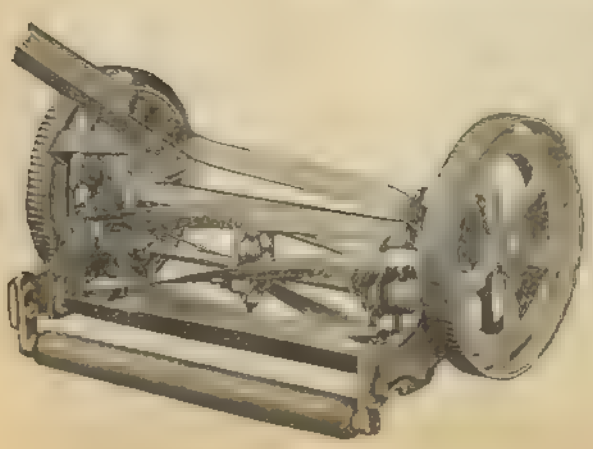
Width of Cut, Inches.....	14	16
Weight Each, Boxed, Lbs....	62	64
Each	$18 00	19 00

One in a Box



BUCKEYE DUPLEX, BALL BEARING

10½ in. Drive Wheels, Five Tool Steel Knives, 6 in. Cylinder



Adjustable Cutter Bar, Ball Bearing Drive Wheels, as Well as Ball Bearing Cylinder.

The Highest Art in Lawn Mower Building has been Reached in the Manufacture of this Mower. The Best Grade of Material is Used Throughout and Every Part Carefully Machined

A Cap Covers the Ball Bearing Parts, Protecting them from Grass and Dirt.

Ball Bearing Wheels Insure an Easier Running and More Durable Mower

Especially Suited for Use on Golf Greens and Fine Lawns

Very Attractively Finished in Gold and Silver Bronze with Green Striping and Decoration

Width of Cut, Inches.....	14	16	18
Weight Each, Boxed, Lbs..	59	65	71
Each	$17 00	18 00	19 00

One in a Box

CALLS

DOG

HORN TIP POLISHED

Per Dozen

No. 40—Length 4 inches; Weight per Dozen 9 ozs. $4 40

BRITANNIA METAL, BRIGHT POLISHED

Nos.	10	20	30
Length Inches	1½	2	2½
Wt per Doz., Ozs.	7	10	16
Per Dozen	$2 65	3 30	4 40

HORN, POLISHED

Nos.	010	020	030
Length, Inches	2½	2¾	3
Wt per Doz., Ozs.	4	5	6
Per Dozen	$3 65	4 00	4 40

CELLULOID, ASSORTED COLORS

Nos.	C10	C20	C30
Length, Inches	1⅝	2	2½
Wt per Doz. Ozs.	2	3	5
Per Dozen	$1 90	3 10	4 40

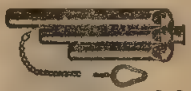
One Dozen in a Box

BICYCLE CALLS

DUPLEX

Per Dozen

No. 60—Drawn Brass; Nickel Plated and Polished; Round Mouth Piece; Length 3½ inches, 15 inch Chain with Button Loop; Weight per Dozen 14 ozs. ... $3 30



TRIPLEX

Per Dozen

No. 75—Drawn Brass, Nickel Plated and Polished, Extra Loud and Heavy; Round Mouth Piece; Length 6 inches; 15 inch Chain with Button Loop; Wt. per Dozen 1¼ lbs. ... $5.00

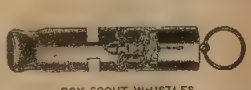
Per Dozen

No. 86—Light Weight Drawn Brass; Nickel Plated and Polished; Length 2½ inches, Flat Mouth Piece; 15 inch Chain with Button Loop. Weight pef Dozen 5 ozs. $1 90

UNIVERSAL

Heavy Drawn Brass; Nickel Plated and Polished; Flat Mouth Piece, 9 inch Chain with Hook.

Nos.		U20	U10
Length Inches		2½	3
Wt per Doz., Ozs		7	8
Per Dozen		$4 20	4 40



BOY SCOUT WHISTLES

The Standard Whistles Adopted by the Boy Scouts of America. Produces a very loud Shrill Call.

Per Dozen

No. 968—Brass, Gun Metal Finish; Length 2¾ inches; Ring at End; Weight per Dozen 8 ozs. ... $3.10

One Dozen in a Box

Per Dozen

No. 56—Light Weight Drawn Brass, Nickel Plated and Polished; Length 2½ inches; Flat Mouth Piece, without Chain; Weight per Dozen 3½ ozs. ... $3 10

POLICE WHISTLES

Genuine English Make

The Most Powerful and Penetrating Police Whistle on the Market

STANDARD

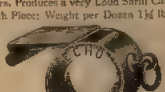
The Standard Whistles used Exclusively by all Metropolitan Police Officers. Produces a very Loud Shrill Call. Per Dozen

No. 615—Heavy Wrought Brass; Nickel Plated and Polished, Length 3¼ inches, Round Mouth Piece; Weight per Dozen 1¼ lbs. ... $9 90

POLICE CALLS

Genuine English Make

The Most Powerful Police Call on the Market



Used Exclusively by all Metropolitan Traffic Officers

ACME THUNDERER

Per Dozen

No. 668—Heavy Wrought Brass, Nickel Plated and Polished Flat Mouth Piece, ⅜ inch Heavy Split Ring; Length Overall without Ring 2½ inches; Weight per Dozen 1 lb. $9 90

Six Dozen in a Box

ECHO

Per Dozen

No. 69—Drawn Brass Nickel Plated and Polished; Flat Mouth Piece with Ring, Size 1¾ inches; Weight per Dozen 8 oz $4 40

No 1250—Light Weight Stamped Brass, Nickel Plated and Polished; Flat Mouth Piece; with Ring, Size 1¾ inches; Weight per Dozen 5 ozs. ... 1 90

One Dozen in a Box

BICYCLE TOOL BAGS.

LEATHER

MEN'S TRIANGULAR; ROUND END.

This Bag is made to fit the Angle of Frame under the Saddle; Handsomely Embossed; Brown; 7¼ in. Long, 5½ in. High

Per Dozen

No. 105—GRAIN LEATHER ...$6.70

LADIES'; TRIANGULAR.

Handsomely Embossed; Brown; 3¼ in. Wide, 8¼ in. High.

Per Dozen

No. 103—GRAIN LEATHER.....$8.00

No. 113—SPLIT LEATHER 6.50

MEN'S; SQUARE SHAPE.

Made to fit the Angle of Steering Head of Frame; Popular Style, Handsomely Embossed Brown; 7¼ in. Long, 2½ in. High

Per Dozen

No. 104—GRAIN LEATHER $8.00

No. 114—SPLIT LEATHER 7.00

MEN'S OVAL SHAPE.

Can be used in Front or Rear; A Very Popular Style, Brown; 7¼ in. Long, 2½ in. High

Per Dozen

No. 101—GRAIN LEATHER ...$8.00

No. 111—SPLIT LEATHER 5.00

JUVENILE.

Flat, with Outside Seams, 7¼ in. Long, 3⅝ in. Wide.

Per Dozen

No. 102—GRAIN LEATHER...$4.00

No. 102½—SPLIT LEATHER... 2.80

Packed Loose. Weight per Dozen about 3½ lbs.

MOTORCYCLE TOOL BAGS.

LEATHER TOOL BAGS AND ROLLS.

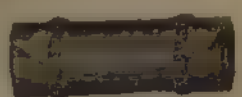
Made from Finest Brown Grain Leather, with Straps of Same Material, Stitched and Riveted.

Per Dozen

No. 2—REGULAR; 9½ in. Long, 3½ in. High, 2½ in. Wide. Weight per doz. about 4 lbs..$22.00

Per Dozen

No. 5—SPECIAL; 9½ in. Long, 4 in. High, 2½ in. Wide; Weight per doz. about 6 lbs.....$26.00



Per Dozen

No. R—ROLL; 2½ in. Wide, Length, Open, 13 in.; Has Inside Strap, Divided for Tools, and Leather Flaps; Weight per doz. about 7 lbs ...$30.00

Packed Loose

BICYCLE LAMPS.

FOR KEROSENE OIL.

SOLAR.

Brass and Steel, Full Nickel Plated, 6½ in. High; 2⅝ in. Beveled Glass Lens, fastened in Groove in Front Door; Door Hinged and Fastens with Spring Catch, Large Red Jewel on Both Sides of Lamp; Aluminum Reflector, Highly Polished; Special Locking Device prevents Wick from jarring down; No. 1—⅜ in. Flat Wick; Wick Regulated from Outside of Lamp; Oil Fount Capacity about ¾ Pint, supplied with Cotton and Spring to Prevent Oil from spilling; Fount Fastened to Lamp by a Lever attached to a Contracting Spring that engages in a Groove on the top of the Fount; Extension in Rear to fasten to Bracket; Combination Head and Fork Bracket, Felt Lined.

Per Dozen

No. 92/C $28.00

One-twelfth Dozen in a Cardboard Box, Four Dozen in a Case; Weight per Dozen about 20 lbs.

OIL.

MILO.

BRASS, NICKEL PLATED; Height 5⅛ in.; Designed to be used on Front Fork; Has 2¼ in. White Headlight and 1⅞ in. Red Rear Glass. Remove Oil Fount by pressure on Steel Spring at Back of the Lamp away from Lamp. Burns Sperm Oil, or if Kerosene is used, Fount should be filled with Cotton.

Per Dozen

No. 1260—Equipped with ⅜ in Burner; Will Burn 4 Hours..$27.00

One-twelfth Dozen in a Cardboard Box, Weight per Dozen about 9¾ lbs

FOR KEROSENE OIL.

EVERLIT

Brass Throughout Nickel Plated and Polished, 5¾ in. High, 2⅜ in. Heavy, Magnifying Lense in Hinged Frame, Fastens with a Spring; Polished Aluminum Removable Reflector, Red and Green Jewel Side Lights; Top Chimney can be Unscrewed for Cleaning; Ratchet Burner can be Regulated from Right or Left Side, fitted with No. 1 Flat Wick; Burns Kerosene; Oil Fount Capacity about ⅛ Pint and Filled with Cotton to Prevent the Oil from Splashing, and as a further Safeguard it has a Reservoir around the Threaded Collar into which the Burner Screws to Prevent the Oil from getting on the outside of the Fount; Fount Fastened to Lamp by Quarter Turn; Bracket Clamp Hung on a Spring.

Per Dozen

No. 1117 ..... $18.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs

BICYCLE LAMPS.

OIL.

CYCLE LIGHT.

SHEET STEEL, BLACK ENAMEL FINISH; Height over all 4½ in.; 2¾ in. Dome Lens, Detachable Polished Reflector; Red Side Lenses ¾x⅜ in.; Oil Fount is Detachable by sliding up Section on Right Side of the Lamp and pulling the Oil Fount of the Lamp out sideways; Burns Sperm Oil, or if Kerosene is used, Fount should be filled with Cotton.

Per Dozen

No. 1250—Will Burn 6 Hours.. $11.00

LUNO.

BRASS, NICKEL PLATED; Height over all 4¾ in.; 2¼ in Dome Lens; Fitted with 1⅛ in. Nickel Plated Reflector; Red Side Lens, ¾x1½ in.; Oil Fount is Detachable by sliding up Section on Right Side of the Lamp and pulling, the Oil Fount out sideways; Burns Sperm Oil, or if Kerosene is used, Fount should be filled with Cotton

Per Dozen

No. 1255—Will Burn 6 Hours..$16.00

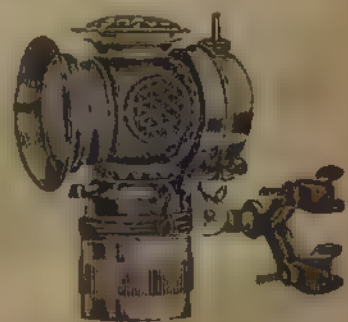
One-twelfth Dozen in a Cardboard Box; Weight per Doz. about 8½ lbs

SOLAR ACETYLENE

New Model "M," made of Special Heavy Gauge Brass, Nickel Plated and Polished; 7 in. High; Straight Carbide Pot, with False Bottom, 2¾ in. Double Convex Lens, with Snap Lens Catch; Large Jewel Side Lights; Lava Tip; Flat Frame; Capacity ¼ Pint of Water and 3 oz. of Carbide; Burns Six Hours; Uses Lump Carbide.

Per Dozen

No. 1201M—BICYCLE, with Combination Head and Fork Bracket $13.50



Per Dozen

No. 2001M—DASH, with Dashboard Bracket $13.50

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 24 lbs.

BICYCLE LAMPS.

ACETYLENE.

SEARCH LIGHT

Brass, Nickel Plated. Height over all 8 in. 2¼ in Beveled Glass Lens, removed by putting pressure on the Lens Spring on the side of the Lamp. Red and Green Side Jewels, slide up and down on a slot to permit lighting. Fitted with Polished Tin Reflector. The Entire Top of the Lamp above the Water Reservoir is removable by a half turn to the left. Reservoir regulated by a Lever on the back. Screwed to Carbide Container. Telescope Carbide Holder with Center Water Feed. Combination Head and Fork Bracket. Felt Lined to lens with Thumb Screws.

Per Dozen

No. 55—Reservoir Holds Sufficient Water to last 10 Hours.... $42.00

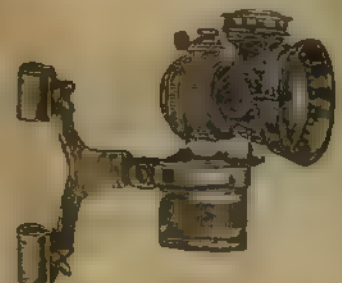
One-twelfth Dozen in a Cardboard Box: Weight per Dozen about 34 lbs.

TWENTIETH CENTURY.

Brass and Sheet Steel, Full Nickel Plate; 7 in. High, 2¾ in Lens with Spring Lens Catch. Large Jewel Side Lights, Genuine German Lava Tip, Flat Flame. Capacity ¾ Pint Water and 3 oz Carbide. Will Burn 6 Hours.

Per Dozen

No. 185N—BICYCLE WITH COMBINATION HEAD AND FORK BRACKET $40.00



Per Dozen

No. 1185N—BUGGY, WITH ADJUSTABLE DASHBOARD BRACKET FOR RIGHT OR LEFT SIDE $39.30

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 24 lbs

BICYCLE LAMPS.

ACETYLENE

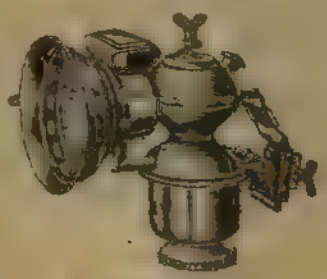
OLD SOL.

BRASS, NICKEL PLATED; Height over all 7 in.; 2⅝ in Double Convex Lens, held by a Spring Wire in a depression; 1¼ in. Red and Green Jewels; Fitted with Highly Polished Tin Reflector. Water Chamber will hold about ½ Pint; Supply of Water regulated by a Knurled Thumb Screw on top of Lamp; Carbide Chamber is attached to Water Reservoir by Two Lugs set at an angle and engaging a shoulder on the bottom of the Reservoir; Carbide Chamber furnished with a Basket with a Perforated Bottom, through which the slacked Carbide sifts to the bottom, preventing the wet residue from wasting the unconsumed Carbide when it is desired to turn off the light. Bracket included with each Lamp which makes it possible to fasten Lamp so it throws light at any desired angle.

Per Dozen

No. 290—Capacity of Chamber 6 oz.; Lamp will Burn 6 to 7 Hours. $44.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 26 lbs.



MILLER'S BETO.

BRASS, NICKEL PLATED; Height over all 6¾ in.; 3⅛ in Dome Lens, removed by applying pressure on the Lens Spring on the Side of the Lamp; Fitted with Polished Aluminum Reflecter and Fish Tail Burner. The Center Bottom Part of the Lamp, which includes the Carbide Chamber, is removed by unscrewing the Knurled Base of the Lamp; Points of contact in Carbide Chamber are made Gas Tight by the use of Rubber Gaskets. Water Supply regulated by Thumb Screw on Top of Lamp. Carbide Chamber equipped with Spring to keep the Carbide from rattling in the Chamber; Center Water Feed; Equipped with Patent Spring Bracket.

Per Dozen

No. 1200—Will Burn 2½ Hours $33.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 19 lbs.

OUR AIM

Filling Orders Promptly.
Filling Orders Completely.
Pricing Orders Uniformly.

BICYCLE LAMPS.

ACETYLENE

Rear View

REGALITE DUPLEX

Special Lamp to attach to Front Fork of Bicycle, Motorcycle or Side of a Wagon. Shows White Light Front and Red in Rear.

BRASS, NICKEL PLATED; Height over all 6 in.; 3⅛ in. Dome Lens, removed by applying pressure on the Lens Spring on the Side of the Lamp; Fitted with Fish Tail Burner. The Entire Bottom Part of the Lamp, which includes the Carbide Chamber, is removed by unscrewing the Knurled Base of the Lamp; Water Supply controlled by Lever on Top of Reservoir; Carbide Chamber equipped with Spring to keep the Carbide from rattling; Center Water Feed; Equipped with Patent Spring Bracket.

Per Dozen

No. 1210—Will Burn 2½ Hours $40.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 18 lbs.

COLUMBIA; BICYCLE OR BUGGY

This Lamp differs from the ordinary Gas Lamp—the Gas can be shut off at any time, saving the Gas that has already been generated; It will light at once if the Carbide has not all been used. It requires One-third Less Caroide than any other Lamp; The Water Feed takes care of itself; Made entirely of Brass; 5 in. High, 2¾ in. Lens, with Spring Clasp Lens Catch; Large Jewel Side Lights, Lava Tip; Capacity ¾ Pint Water, and 2 oz. Carbide; Burns 6 Hours.

Per Dozen

No. 245N—NICKEL PLATED..$51.00

No. 245GM—GUN METAL FINISH 51.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 22 lbs.

LAVA TIPS.

FOR BICYCLE LAMPS

Made of very Hard Composition. Not affected by Heat and will not Carbonize; Proper size for all Acetylene Lamps; One Hole on each side of V through which gas escapes and makes perfectly flat flame.

No. 1—HALF FOOT; Height 19/32 in.; Tapered Shank; Diameter of Top 21/32 in.; Diameter of Bottom 5/16 in .....Per Dozen, $1.10

Packed Loose Weight per Dozen about 1 oz

BICYCLE SADDLES.

Suspension Tops, made of the Best Imported Leather; Frames and Springs of the Best Steel, Black Enameled, with Bolt for Adjusting Tension of Top; Improved Seat Post Clamp with Each Saddle.

Each

No. 1340—EAGLE CLIMAX; Top 10 in. Long, 9½ in. Wide; Heavy Spiral and Cushion Springs in Rear; Double Coil Spring at Nose; Flat Steel Truss $6.50

Weight Each about 5 lbs.
Wrapped in Paper.

Each

No. 1325—EAGLE MONARCH; Top [illegible] in. Long, 8¾ in. Wide, Single Truss Frames; Large Coil Springs in Rear and Coil Springs at Front; Black Enameled Finish $4.00

Weight Each about 3¼ lbs.

Each

No. 1320—EAGLE DIAMOND; Top 10½ in. Long; 7½ in. Wide; Single Truss Frame; Large Coil Springs in Rear and Coil Spring at Front, Black Enameled Finish [illegible]

Weight Each about 3¼ lbs
Wrapped in Paper

PERSONS' SUSPENSION TYPE

The Tops are made of High Grade Leather, Carefully Tanned and Formed and are Guaranteed to Hold their Shape; the Springs are made of Heavy Grade Material, Nickel Plated and Polished, and Equipped with a Special Adjustable Seat Post Clamp which will Adjust to Any Position Desired.

Each

No. 60—MAXIMUS; Top 11 in. Long, 9 in. Wide, Two Rear Cushion Springs, Coil Springs, Double Nose Springs and Flat Steel Truss. The Brace in the Rear that Holds the Distance between the Two Rear Coil Springs is a Wide Steel Brace $6.80

Weight Each about 5 lbs.
Wrapped in Oiled Paper and Heavy Wrapping Paper.

BICYCLE SADDLES.

PERSONS' SUSPENSION TYPE.

The Tops are made of High Grade Leather, Carefully Tanned and Formed and are Guaranteed to Hold their Shape; the Springs are made of Heavy Grade Material, Nickel Plated and Polished, and Equipped with a Special Adjustable Seat Post Clamp which will Adjust to Any Position Desired.

Each

No. 30—STERLING; Top 10 in. Long, 8 in. Wide, Two Rear Cushion Springs; Coil Springs, Double Nose Springs and Flat Steel Truss, The Brace in the Rear that Holds the Distance between the Two Rear Coil Springs is Leather Covered...$5.50

Weight Each about 4½ lbs.

Each

No. 40—OVERLAND; Top 10 in. Long, 8 in. Wide; Two Rear Coil Springs; Double Nose Springs and Flat Steel Truss; the Brace in the Rear that Holds the Distance between the Two Rear Coil Springs is Leather Covered $4.50

Weight Each about 4 lbs.

Each

No. 30—ROADSTER; Top 11 in. Long, 9 in. Wide; Two Rear Cushion Springs and One Nose Spring $3.80

Weight Each about 3 lbs.

No. 20—OLD COMFORT; Top 11 in. Long, 7⅞ in. Wide; Two Rear Cushion Springs and One Nose Spring $3.30

Weight Each about 2 lbs.

No. 10—SPECIAL; Top 11 in. Long, 7¾ in. Wide; Plain Truss Spring $2.40

Weight Each about 1 lb.

Wrapped in Oiled Paper and Heavy Wrapping Paper

BICYCLE SADDLES.

SIMMONS LACLEDE.

Grain Leather Top and Bottom; Sewed Around Entire Edge and in Center; Laminated Wood Base Heavily Padded with Hair; Springs, Black Enameled; Two 8/16 in. Wire Coiled Springs 2 in. Long in Rear, connected to ¼ in. Wire Truss Spring and Front Coil Spring. Front Coil Spring Extends Three Quarters under Saddle; All Fastened with Bolts and Nuts; Clamp for Fastening Saddle to Seat Post included with each Saddle

Each

No. 470—MEN'S 10 in. Long, 8 in Wide $3.50

Stylish, Graceful, Durable, Comfortable

One Piece Leather Tops, Split Leather Bottoms, Sewed Around Entire Edge and in Center; Laminated Wood Base, Heavily Padded with Hair; ¼ in. Steel Spring, Nickel Plated, Fastened with Bolts and Nuts; Clamp for Fastening Saddle to Seat Post included with each Saddle

Divided Center; High Back; Suspension Spring, with one Coil in Front, and two in Rear; 10 in. Long, [illegible] Wide

Each

No. 430 [illegible] MEN'S Grain Leather Top $2.00

MEN'S Divided and Ventilated Center; Truss Spring; 9 in. Long, 7½ in. Wide

Each

No. 440—Grain Leather Top.....$1.70

LADIES'; Concaved Center; Coil Spring, 9 in. Long, 8½ in. Wide

Each

No. 415—Grain Leather Top... $1.80

LADIES' Concaved Center; Large Curved Spring; 8 in. Long, 7½ in. Wide

Each

No. 415—Grain Leather Top... $1.40

JUVENILE; Concaved Center, Truss Spring; 7 in. Long, 6 in. Wide

Each

No. 400—Split Leather Top.....$1.20

Wrapped in Paper; Weight Each about 2 lbs.

HANDLE BAR COVERING.

Knitted, made of White Cotton, and of the Proper Length to fit one Side of the Handle Bar. It takes Two to Cover a Bar Complete. Keeps the Nickel Plating Bright.

Per Dozen

No. KC—Handle Bar Covering..$0.30

Packed Loose; Weight per Dozen about 6 oz.

HANDLE BAR GRIPS.

Red Rubber.

Core made of Hard Wood; Moulded Soft Rubber Cover, Nickel Plated Brass Cap and Ferrule.

Per Dozen Pairs

No. 78R—⅞ in. $5.00

Provides Firm Hold for the Hands and Relieves Them of Much of the Jarring; Made of High Grade Rubber and is Extremely Durable. Ribbed Sides. Nickel Plated Ferrule; Extends on Bar 3½ in.

Per Dozen Pairs

No. BR78—⅞ in. $4.50

One Doz. Pairs in a Cardboard Box; Weight per Doz. Pairs about 4 lbs.

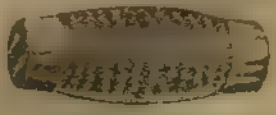
Walnut Finish

Walnut Grips, Accurately Moulded to Shape, the Seam sunk into a Groove in Core, leaving a Smooth Surface; German Silver Ferrules.

Per Dozen Pairs

No. 78LGS—⅞ in. $2.50

One Doz. Pairs in a Cardboard Box; Weight per Doz. Pairs about 2¼ lbs.



Brown Leather, Highly Polished. Core made of Hard Maple Wood. Leather Wound; Nickel Plated Brass Cap and Ferrule.

Per Dozen Pairs

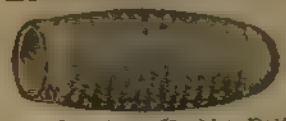
No. 78LB—⅞ in., Nickel Tips...$2.30

Brown Leather, Highly Polished. Core made of Hard Maple Wood. Leather Wound; Nickel Plated Brass Ferrule; Cap Stained.

Per Dozen Pairs

No. 78L—⅞ in. $1.50

HANDLE BAR GRIPS.



Brown Leather, Highly Polished. Core made of Hard Maple Wood. Leather Wound; Cap and Ferrule Natural Finish.

Per Dozen Pairs

No. 78LW—⅞ in. $1.40

No. 341—⅞ in. 1.40

BICYCLE AND MOTORCYCLE.

Made of Two Plies of Fabric covered with Black Rubber; Two Extra Plies of Fabric in the Grip Where it extends beyond the Bar to Stiffen the Grip and Relieves the Hand of Severe Vibration.

Per Dozen Pairs

No. RG—BICYCLE; For ⅞ in. Handle Bar; 6 in. Long and extends 3 in. on Bar..... $7.00

One Dozen Pairs in a Cardboard Box; Weight per Dozen Pairs about 6 lbs.

Per Dozen Pairs

No. AR78—BICYCLE, For ⅞ in. Handle Bar; 7 in. Long and extends 3½ in. on Bar..... $11.00

One Pair in Cardboard Box; One Dozen Pairs in a Carton; Weight per Dozen Pairs about 9 lbs.

Per Pair

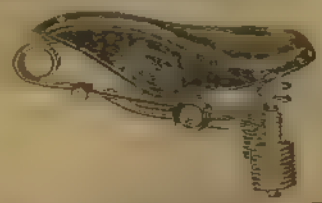
No. MR1—MOTORCYCLE; For 1 in. Handle Bar; 8 in. Long and extends 4 in. on Bar..... $1.00

One Pair in a Cardboard Box; Weight per Dozen about 12 lbs.

BICYCLE SADDLES.

SIMMONS BACLEDE.

Oak tanned Grain Leather Tops and Bottoms, Stretched in form and will Positively Hold its Shape. Frames and Springs are of Best Grade Steel, with Bolt for adjusting Tension of Top. All Saddles equipped with Bolts and Nuts; Clamps for fastening Saddle to Seat Post included with each Saddle.



Each

No. 1126—RACER, SUSPENSION; Top 11½ in. Long, 6½ in. Wide, Steel Suspension Springs at Rear; Coil Springs at Nose; Steel Spring Wire; Double Truss in Spring Steel Truss Frame, Black Enamel Finish; Weight each about 4 lbs. $4.50

Each

No. 1125—SUPERB, SUSPENSION; Top 10½ in. Long, 7½ in. Wide, Double Truss Frame; Large Coil Springs at Rear and Coil Spring at Front; Black Enameled Finish; Weight each about 3 lbs. $3.50

BICYCLE SADDLES.

SIMMONS BACLEDE.

Oak tanned Grain Leather Tops and Bottoms, Stretched in form and will Positively Hold its Shape; Frames and Springs are of Best Grade Steel with Bolt for adjusting Tension at Top. All saddles equipped with Bolts and Nuts, Clamps for fastening Saddle to Seat Post included with each Saddle.

Each

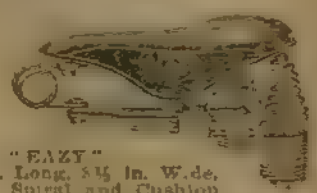
No. 1116—SPECIAL, SUSPENSION; Top 10½ in. Long, 7½ in. Wide; Double Truss Frame; Two ⅛ in. Coil Springs at Rear and ⅛ in. Coil Spring at Front, Black Enameled Finish. Frame so constructed that Saddle is very easy riding; Wgt. each about 3 lbs. $3.30

No. 1115—ROADSTER, SUSPENSION, Top 10½ in. Long, 7½ in. Wide, Truss and Frame with Two ⅛ in. Spiral Springs at Rear and ⅛ in. Coil Spring at Front; All Black Enameled Finish; Weight each about 1½ lbs. $2.40

No. 1123—RACER, SUSPENSION Top 11 in. Long, 6½ in. Wide, Single Truss Frame; ¼ in. Steel Spring Wire, Nickel Plated Finish; Wgt. each about 1¼ lbs. $1.60

SIMMONS BACLEDE.

Superior Grade of the Best Imported Leather Tops, Frames and Springs of the Best Steel, Bolt provided with Bolt for adjusting Tension of Top. Improved Seat Post Clamp with Each Saddle.



"EAZY"

13 in. Long, 8½ in. Wide, 7/64 in. Spiral and Cushion Springs at Rear; Coil Spring at Nose; Round Spring Steel Truss.

No. 1203—Japanned Springs....$4.50

No. 1263—Nickel Plated Springs. 4.50

Weight each about 2¾ lbs.

Each

No. 1317—Top 10½ in. Long, 7½ in. Wide; Single Truss Frame with Two Coils at Rear and One in Front $2.00

Weight Each about 2 lbs.

Hammers, Various.

No. 1289.

Repousse or Chasers.

2	3	4	5 oz.
Price 1/2	1/4	1/8	2/- Heads only.

No. 1290.

Bright Watch and Clock.

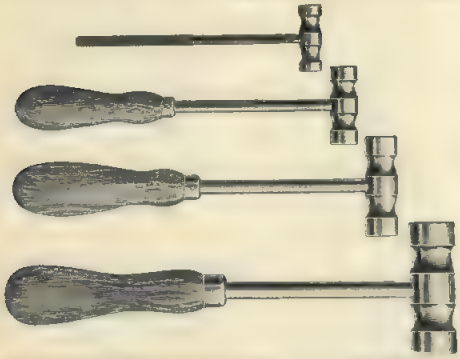
Length 2	2½	3	3½ in.
Price 1/-	1/1	1/2	1/3 each.

Complete with handles

No. 1291

Bright Ball Pane.

4	6	8	10	12 oz
Price-/10	1-1/2	1/3	1/5	ea. Head only.
„ 1/2	1/4	1/6	1/7	1/9 „ Complete with ash handles.



Brass Hammers, Polished Heads.

This line of Brass Hammers for use on finished work will be found convenient, practical, and of moderate cost.

No. 1292.

Polished Brass Head, ¼ in. × 1¼ in.; polished steel handle, with knurled grip. Length over all, 5 in.; weight, 2 oz.

Price, each 1/-

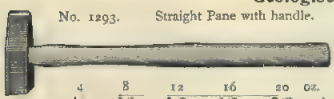
Larger Sizes.

Polished Brass Heads, Steel Shanks, and Polished Hardwood Handles.

Length and Diam. of Heads	1¼ × ¾	2½ × ¼	3 × 1 in.
Weight	4	8	16 oz.
Price, each	1/6	1/9	3/-

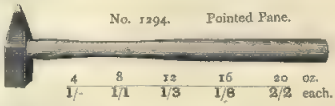
Geologists' Hammers.

No. 1293. Straight Pane with handle.



4	8	12	16	20 oz.
1/-	1/1	1/3	1/8	2/2 each.

No. 1294. Pointed Pane.



4	8	12	16	20 oz.
1/-	1/1	1/3	1/8	2/2 each.

Billings' Magnetic Tack Hammer and Puller. No. 1295

This new tool is drop forged of bar steel in one piece, making it the strongest Tack Hammer on the market. It is carefully tempered. One of the heads is in the form of a horse-shoe magnet for picking up the tack and holding it in position for driving.

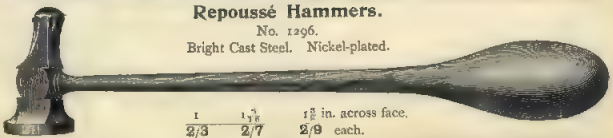
Length . 8 in
Price 1/3

Repoussé Hammers.

No. 1296.

Bright Cast Steel. Nickel-plated.

With Lancewood Handles as illustrated.



1	1 7/16	1⅝ in. across face.
2/3	2/7	2/9 each.

No. 1296½. Second Quality, 1/9, 2/-, 2/3 each.

Orders of 20/- and upwards Carriage Paid (with few exceptions).

BLACKSMITHS' ANVILS.

"OAK LEAF"

Solid Wrought Body and Horn, Japanned Finish, with Hardened and Tempered Flat Steel Face, Welded on and Polished, Square Hardy Hole near the Heel.

Nos.	E80	E100	E125	E150
Size of Face, in.	2½x12	3⅝x13½	3⅞x15	4x16½
Height over all, in.	9	10	10⅝	11¼
Length over all, in.	20½	22½	24	26
Size Hardy Hole, in.	¾	¾	⅞	⅞
Wgt. as about, lbs.	80 to 83	96 to 106	124 to 128	146 to 156
Per lb.	$0.19	.19	.19	.19

Packed Loose; Face and Horn Burlapped.

BAY STATE FARMERS' CART.

Contains a large percentage of Steel, which makes them Hard and Tough; Body and Horn Japanned Finish; Face is True and Well Polished; Square Hardy Hole near the Heel.

Nos.	B5	B7	B10
Dimensions of Face, in.	2⅛x8½	3⅛x10⅝	3⅝x13⅛
Height over all, in.	7⅝	8½	9⅛
Length over all, in.	14⅛	18	20
Size of Hardy Hole, in.	⅝	⅞	⅞
Weight each, lbs.	50	70	100
Per lb.	$0.12½	.12½	.12½

Packed Loose.

EAGLE.

SOLID CRYSTALLIZED IRON BODY, Japanned Finish, with Hardened and Tempered Steel Face Welded on; Flat Ground and Polished, Steel Horn; Square Hardy Hole near the Heel.

Nos.	4	5	6	7
Dimensions of Face, inches	8¾x3	9½x3	10x3	10¾x3¼
Height over all, inches	7½	8¼	8¾	9
Length over all, inches	14⅛	15⅝	18⅝	17
Size of Hardy Hole, inches	⅝	⅝	⅝	⅝
Weight each, lbs.	40	50	60	70
Each	$10.50	11.50	12.50	14.00
Nos.	8	9	10	
Dimensions of Face, inches	10½x3¼	11x3¼	11x3½	
Height over all, inches	9¼	10	10⅛	
Length over all, inches	18	18¾	20	
Size of Hardy Hole, inches	⅝	⅝	⅝	
Weight each, lbs.	80	90	100	
Each	$15.50	17.50	19.00	

Packed Loose.

Solid Tool Steel, Polished Face, Welded to a Cast Iron Body, Natural Finish; the Horn is Covered with and the Point is made Entirely of Tough Untempered Steel; Square Hardy Hole near the Heel.

Nos.	30B	50B	70B	100B
Dimensions of Face, in.	2½x7	3¼x8¼	3½x10	3¾x12¼
Height over all, inches	6⅝	7½	9	10
Length over all, inches	11⅝	13	16½	18
Size Hardy Hole, in.	½	½	⅝	⅝
Weight each, lbs.	30	50	70	100
Each	$7.00	9.00	10.50	15.00

Packed Loose, Face and Horn Burlapped.

BLACKSMITHS' TOOLS.

PUNCHES.

Solid Forged Steel, Oil Finished, with Hardened Point; Oval Eye.

Round, Polished Point.

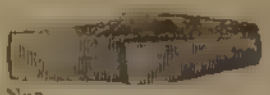
Nos.	RP¼	RP5/16	RP⅜	‡RP7/16	RP½
Diameter at Point, in.	¼	5/16	⅜	7/16	½
Lgth. over all abt., in.	8	8	8	8	8
Weight each about, lbs.	1	1	1¼	1⅛	1½
Per pound	$0.33	.33	.33	.32	.32
Nos.	RP⅝	‡RP¾	‡RP⅞	‡RP1	
Diameter at Point, in.	⅝	¾	⅞	1	
Lgth. over all abt., in.	8	8	8	8	
Weight each about, lbs.	2	2½	3¼	3½	
Per pound	$0.32	.32	.32	.32	

‡So designated (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BLACKSMITHS' TOOLS.

Solid Forged Steel, Oil Finished, with Hardened Bit and Face. Oval Eye.

HOT CHISELS.



Polished Rounding Bit; Round Shoulder.

Nos.	‡A1	A1¼	A1½	A1¾
Width of Bit, inches	¾	1¼	1½	1¾
Weight each, lbs.	1¼	2	2½	3
Length over all, inches.	6¼	6½	6¾	7
Per pound	$0.32	.32	.32	.32
Nos.		A2	‡A2¼	‡A2½
Width of Bit, inches		1¾	1⅞	2
Weight each, lbs.		3¼	3¾	4
Length over all, inches.		7¼	7½	7¾
Per pound		$0.32	.32	.32

COLD CHISELS.

Polished Rounding Bit.

Nos.	‡B1	B1¼	B1½	B1¾
Width of Bit, inches	¾	1	1¼	1⅜
Weight each, lbs.	1¼	1⅝	2	2½
Length over all, inches.	5½	5¾	6⅛	6⅜
Per pound	$0.32	.32	.32	.32
Nos.		B1¾	‡B1¾	‡B2
Width of Bit, inches		1½	1⅝	1¾
Weight each, lbs.		3	4	5½
Length over all, inches		7¾	8⅛	8½
Per pound		$0.32	.32	.32

TOP SWAGES.

Solid Forged Steel, Oil Finished, with Hardened Face; Round Shoulder; Oval Eye.

Top Pattern, Average Length, 5½ to 6 in.

Nos.	TS⅜	TS½	TS⅝
Size, inches	⅜	½	⅝
Wgt. each about, lbs.	2	2	2¼
Per pound	$0.32	.32	.32
Nos.	TS¾	TS⅞	TS1
Size, inches	¾	⅞	1
Wgt. each about, lbs.	2¾	3	3
Per pound	$0.32	.32	.32
Nos.	TS1¼	‡TS1½	TS1¾
Size, inches	1¼	1½	1¾
Wgt. each about, lbs.	3½	4	4½
Per pound	$0.32	.32	.32

BOTTOM SWAGES.

Solid Forged Steel, Oil Finished, with Hardened Face, Square Shoulder, Square Shank for 1 in. Hole in Anvil.

Bottom Pattern; Average Length 4 to 4½ in.

Nos.	BS⅜	BS½	BS⅝
Size, inches	⅜	½	⅝
Wgt. each about, lbs.	1¾	2	2¼
Per pound	$0.32	.32	.32
Nos.	BS¾	BS⅞	BS1
Size, inches	¾	⅞	1
Wgt. each about, lbs.	2¼	2½	2½
Per pound	$0.32	.32	.32
Nos.		BS1¼	BS1½
Size, inches		1¼	1½
Weight each about, lbs.		4	4½
Per pound		$0.32	.32

Packed Loose.

PLOW ANVILS.

Polished Round Head; Rounding Face and Shoulder; Round Tapering Shank.

Per Pound

No. PA—Face Diameter about 2 in.; Length over all 5¾ in.; Weight each about 4½ lbs. $0.14

Packed Loose.

FLATTERS.

Solid Forged Steel, Oil Finished, with Hardened Face, Oval Eye.

SQUARE POLISHED EXTENSION FACE, ROUNDING SHOULDER.

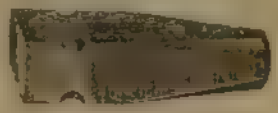
Nos.	SF2	‡SF2¼	SF2½	‡SF2¾	SF3
Size of Face, inches	2	2¼	2½	2¾	3
Lgth. about, in.	5	5	5	5½	5½
Wgt. each abt., lbs.	2½	3	3½	4½	6
Per pound	$0.32	.32	.32	.32	.32
Nos.		‡SF3¼	‡SF3½	‡SF3¾	‡SF4
Size of Face, inches		3¼	3½	3¾	4
Length about, inches		5½	5½	5¾	6¼
Weight each about, lbs		6½	7	7½	8
Per lb.		$0.32	.32	.32	.32

‡So designated (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BLACKSMITHS' TOOLS.

‡SET HAMMERS

Solid Forged Steel, Oil Finished, with Hardened Faces; Oval Eye.



‡SQUARE POLISHED FACE AND HEAD.

Nos.	SHB1	SHB1¼	SHB1½	SHB1⅝	SHB1¾	SHB1⅞	SHB2
Size of Face, in.	1	1¼	1⅜	1½	1½	1⅝	2
Length about, in.	5¼	5¼	5½	6½	5¼	6	6
Weight each about, lbs.	1¼	1½	2	2½	3	4	5
Per lb.	$0.24	.24	.24	.24	.24	.24	.24

Packed Loose.

TOP FULLERS.

Solid Forged Steel, Oil Finished; Hardened Polished Bit. TOP PATTERN; Round Shoulder, Oval Eye.

Nos.	‡TF1/4	‡TF1/2	TF3/4	TF7/8
Length of Bit, in.	1/4	1/2	3/4	7/8
Length over all, in.	5	5	5	5
Wgt. each about, lbs.	2	2¼	2½	2⅝
Per pound	$0.32	.32	.32	.32

Nos.	TF1⅛	TF1¼	TF1	TF1½
Length of Bit, in.	1⅛	1¼	1	1½
Length over all, in.	6⅛	6¼	6	6½
Weight each abt., lbs.	2⅝	2¾	3	3
Per pound	$0.32	.32	.32	.32

Nos.	TF2	‡TF2½	‡TF3
Length of Bit, inches	2	2½	3
Length over all, inches	6	6½	6½
Weight each about, lbs.	5	6	8
Per pound	$0.32	.32	.32

BOTTOM FULLERS.

Solid Forged Steel, Oil Finished; Hardened Polished Bit. BOTTOM PATTERN; Square Shoulder; Square Shank, for 1 in. Hole in Anvil.

Nos.	‡BF1/4	‡BF1/2	BF3/4
Lgth. of Bit, in.	1/4	1/2	3/4
Lgth. over all, in.	4½	4½	4½
Wgt. each about, lbs.	1½	1½	2
Per pound	$0.32	.32	.32

Nos.	BF7/8	BF1¼	BF1½
Length of Bit, inches	7/8	1¼	1½
Length over all, inches	4½	4½	4½
Weight each about, lbs.	2½	2½	2½
Per pound	$0.32	.32	.32

Nos.	BF1	‡BF1½	‡BF1¾	‡BF2
Length of Bit, inches	1	1½	1¾	2
Length over all, inches	5	5	5	5
Weight each about, lbs.	3	3	3	7½
Per pound	$0.32	.32	.32	.32

HARDIES.

Solid Forged Steel, Oil Finished, Hardened Bit or Face. Rounding Shoulder; Polished Bit; Square Shank.

Nos.	H¾	H⅞	H1	H1¼	H1½
Size of Shank, in.	¾	⅞	1	1¼	1½
Length of Bit, in.	1⅝	1⅝	1⅝	1⅝	2
Length over all, in.	4	4	5½	5¼	5¼
Wgt. each abt., lbs.	¾	¾	1	1½	2
Per pound	$0.32	.32	.32	.32	.32

HORSESHOERS' TONGS.

Solid Steel, Drop Forged, Oil Finish; Recessed Jaws.

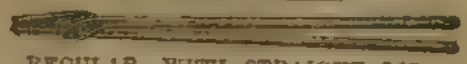
Nos.	ST12	ST14
Length, inches	12	14
Weight per dozen about, lbs.	24	27
Per dozen	$5.50	5.50

Packed Loose

BLACKSMITHS' TOOLS.

Solid Wrought Steel; Drop Forged; Oil Finished.

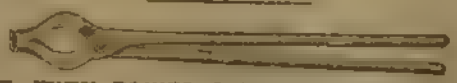
REGULAR TONGS.



REGULAR, WITH STRAIGHT LIPS.

Nos.	S 18	S 20	S 22	S 24
Length, inches	18	20	22	24
Weight per dozen about, lbs.	31	34	36	39
Per dozen	$4.50	5.00	5.50	6.00

BOLT TONGS.

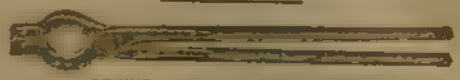


BOLT, WITH BOWED LIPS; HOLLOWED ENDS.

Nos.	‡B4	‡B5	‡B6	B8	B10
For Holding Round Iron, in.	1/4	5/16	3/8	1/2	5/8
Length, inches	18	18	20	20	22
Weight per dozen about, lbs.	31	31	34	34	36
Per dozen	$6.00	6.00	7.00	7.00	7.50

Nos.	B12	‡B14	‡B16	‡B18	‡B20
For Holding Round Iron, in.	3/4	7/8	1	1¼	1¼
Length, inches	22	24	24	24	24
Wgt. per dozen about, lbs.	36	39	39	38	35
Per dozen	$8.00	8.00	8.00	[illegible]	[illegible]

‡GAD TONGS.



BOWED LIPS, STRAIGHT ENDS

Nos.	‡G18	‡G20	‡G22	‡G24
Length, inches	18	20	22	24
Weight per dozen about, lbs.	24	27	33	40½
Per dozen	[illegible]	7.00	7.50	8.00

‡PICK-UP TONGS.

DOUBLE BOWED, POINTED LIPS

‡No. P22—Length 22 in.; Weight per dozen about 34½ lbs... Per Dozen $10.00

Packed Loose.

BLACKSMITHS' OUTFIT.

No. 1BS—BLACKSMITHS' OUTFIT COMPLETE: Consisting of the High Grade Blacksmiths' Tools Named and Described Below; Weight Complete about 175 lbs. $27.70

Packed Loose.

ANVIL—Cast Base, with Steel Face. Weight 30 lbs.

[illegible] 15 in. Bowl and [illegible] Weight about 50 lbs.

DRILL—[illegible] Screw Feed, Chuck takes Bit [illegible] Will Drill to the Center of a 7 in. [illegible] in Height over all, and Weighs about 22 lbs.

VISE—[illegible] 3½ in. Jaws; Steel Jaws and [illegible] Weight about 22 lbs.

STOCK AND DIES—15 in. Stock, with Three Sets of Dies and Four Taper Taps, Cutting ⅛ to ½ in. Right Hand Threads.

TONGS—One Pair 20 in. Straight Lipped Regular Blacksmiths' Tongs.

PINCERS—14 in. Blacksmiths' Shoeing.

FARRIERS' KNIFE—Iron Handle with Detachable Blade.

HAND HAMMER—Cast Steel; Hardened Face and Pein; Hickory Handle; Weight 2 lbs.

FARRIERS' HAMMER—Cast Steel; Hardened Face and Claws; Hickory Handle; Weight 7 ounces.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BLACKSMITHS' OUTFIT.

7 Straight Shank Drills.

No. 2BS—BLACKSMITHS' OUTFIT COMPLETE; Consisting of the High Grade Blacksmiths' Tools Named and Described Below; Weight Complete about 360 lbs. $47.80

Packed Loose.

ANVIL—Cast Base, with Steel Face; Weight 50 lbs.
FORGE—Portable Lever Action, with 18 in. Bowl and 7 in. Fan; 30 in. High; Weight about 80 lbs.
DRILL—Ball Bearing Double Geared Self-feed; the Feed has a 3 in. Run and will Drill Holes up to 1 in. to the Center of a 12 in. Circle; Chuck takes ½ in. Straight Shank Drills.
VISE—35 lb. Regular Blacksmiths' Solid Box.
STOCK AND DIES—15 in. Stock, with Three Sets of Dies and Four Taper Taps, Cutting ¼ to ½ in. Right Hand Threads.
TONGS—One Pair 20 in. Straight Lipped Regular Blacksmiths' Tongs, and One Pair Bolt Tongs, for ½ in. Bolts.
PINCERS—14 in. Blacksmiths' Shoeing.
FARRIERS' KNIFE—Iron Handle, with Detachable Blade.
HAND HAMMER—Cast Steel; Hardened Face and Pein; Hickory Handle, Weight 2 lbs.
FARRIERS' HAMMER—Cast Steel; Hardened Face and Claws; Hickory Handle; Weight 7 ounces.
SEVEN TWIST DRILLS—One each ⅛, 5/16, ¼, 5/16, ⅜, 7/16 and ½ in., to Fit Post Drill.
HOT CHISEL—1¾ in.; Weight 2½ lbs.
COLD CHISEL—1¾ in.; Weight 2½ lbs.
HARDY—To Fit Anvil.

3 Straight Shank Twist Drills.

Each

No. 3BS—BLACKSMITHS' OUTFIT COMPLETE; Consisting of the High Grade Blacksmiths' Tools Named and Described Below; Weight Complete about 300 lbs. $35.00

Packed Loose.

ANVIL—Cast Base, with Steel Face; Weight 70 lbs.
FORGE—Portable Lever Action, with 21 in. Bowl and 9 in. Fan; 31 in. High; Weight about 50 lbs.
DRILL—Ball Bearing Double Geared Self-feed; the Feed has a 3 in. Run and will Drill Holes up to 1 in. to the Center of a 12 in. Circle; Chuck takes ½ in. Straight Shank Drills.
VISE—35 lb. Regular Blacksmiths' Solid Box.
STOCK AND DIES—15 in. Stock, with Three Sets of Dies and Four Taper Taps, Cutting ¼ to ½ in. Right Hand Threads.
TONGS—One Pair 20 in. Straight Lipped Regular Blacksmiths' Tongs, and One Pair Bolt Tongs, for ½ in. Bolts.
PINCERS—14 in. Blacksmiths' Shoeing.
FARRIERS' KNIFE—Iron Handle, with Detachable Blade.
HAND HAMMER—Cast Steel; Hardened Face and Pein, Hickory Handle; Weight 2 lbs.
FARRIERS' HAMMER—Cast Steel; Hardened Face and Claws; Hickory Handle; Weight 7 ounces.
EIGHT TWIST DRILLS—One each ⅛, 5/16, ¼, 7/16, ⅜, ½, 9/16 and ⅝ in., to Fit Post Drill.
HOT CHISEL—1¾ in.; Weight 2½ lbs.
COLD CHISEL—1¾ in.; Weight 2½ lbs.
HARDY—To Fit Anvil.

BLACKSMITHS' OUTFIT.

10 Straight Shank Drills. 2 Bolt Tongs. 2 Blacksmith Tongs. Each

No. 4BS—BLACKSMITHS' OUTFIT COMPLETE; Consisting of the High Grade Blacksmiths' Tools Named and Described Below; Weight Complete about 500 lbs. $110.50

Packed Loose.

ANVIL—*KLEEN KUTTER* BLACK JACK; Solid Wrought Iron Base, with Tempered and Hardened Crucible Tool Steel Face, Weight 134 lbs.
BLOWER—Double Geared Plain Bearing Crank Action, Dust-proof Gear Casing; 18 lb. Ball Valve Tuyere Iron 12 in. Fan; Height about 48 in.; Weight about 115 lbs.
DRILL—Ball Bearing, with Double Gear Self-feed, the Feed has a 3⅜ in. Run and Will Drill Holes up to 1 in. to the Center of a 15 in. Circle; Chuck Fitted to take ⅜ in. Straight Shank Drills; Weigat about 94 lbs.
VISE—80 lb. Regular Blacksmiths' Solid Box.
SCREW PLATE—23 in. Stock, 7 Adjustable Dies and 7 Taper Taps, to Cut ¼ to ⅝ in. Right-hand Threads; 18 in. Adjustable Tap Wrench.
TONGS—One Pair each 20 and 22 in. Regular Straight Lipped Blacksmiths' Tongs and One Pair each Bolt Tongs, for Bolts ½ and ⅝ in.
PINCERS—One Pair 14 in. Farrier's Nail Cutting Pincers, One Pair 14 in. Shoeing and Cutting Pincers and One Pair 14 in. Hoof Paring Pincers.
FARRIERS' KNIFE—Iron Handle, with Detachable Blade.
HAND HAMMER—Cast Steel, Hardened Face and Pein, Hickory Handle, Weight 2 lbs.
BALL PEIN HAMMER—Cast Steel, Hardened Face and Pein Hickory Handle, Weight 3 lbs.
RIVETING HAMMER—Cast Steel, Hardened Face and Pein, Hickory Handle, Weight 9 ounces.
FARRIERS' HAMMER—Cast Steel, Hardened Face and Claws, Hickory Handle, Weight 7 ounces.
SLEDGE—One 10 lb. Sledge, with Handle.
BOLT CLIPPER—Cuts Bolts up to ½ in.
BLACKSMITHS' APRON—Large Size.
FILES—One 14 in. and One 10 in. HORSE RASP—14 in.
TEN TWIST DRILLS—One each 1/8, 5/32, ¼, 9/32, ⅜, 7/16, ½, 9/16, ⅝ and ¾ in., to Fit Post Drill.
TAPE MEASURE—One 72 in. Steel Tape, 2 in. in Circumference, with Index Hand.
HOT CHISEL—1¾ in.; Weight 2½ lbs.
COLD CHISEL—1¾ in.; Weight 2½ lbs.
HARDY—To Fit Anvil.
WELDING COMPOUND—5 lbs., in a Screw Top Can.

WELDING BORAX.

GRANULATED CRUSHED BORAX, for Welding Purposes.

Per lb

No. B100—100-LB. BURLAP SACKS..... $0.15
Sold in Bulk as Desired.

No. B5—5-LB. SCREW TOP TIN CANS.... $0.16½

PURE CRYSTAL OR LUMP BORAX, for Welding Purposes.

No. BC/100—100-LB. BURLAP SACKS.....Per lb., $0.12
Sold in Bulk as Desired.

WELDING COMPOUND.

CHERRY HEAT WELDING COMPOUND.
Course Granulated Mixture, for Steel, Iron or Malleable Iron.

Nos.	CH25	CH50	CH100
Lbs. in Wood Box....	25	50	100
Per lb.	$0.16	.16	.16

Sold Only in Full Boxes. Per lb

No. CH5—5-LB. SCREW TOP TIN CANS..... $0.20

CLIMAX WELDING COMPOUND.
A Granulated Mixture for all Grades of Steel.

Nos.	C 25	C 50	C 100
In Wood Boxes containing, lbs ...	25	50	100
Per lb	$0.13½	.13½	.13

Sold Only in Full Boxes. Per lb.

No. C 5—5-LB. SCREW TOP TIN CANS..... $0.16½

BELLOWS.

STANDARD BLACKSMITHS'.

Hardwood Outside Boards, Cross Cleated, Painted Red; Japanned Sheet Steel Cap and Funnel; Five Leaf Pattern, with Cowhide Split Leather Sides or Folds; Trimmed with ⅝ in. Wood Mouldings, Secured with Chemically Coated Nails, Steel Side Pivots and Rear Hook.

REGULAR LENGTH.

Nos.	B24	B26	B28	B30	B32
Width, inches	22	22	25	30	32
Length, inches	46	49	52	55	58
Thickness Closed, inches	5	5	5	5¾	6
Weight each about, lbs.	36	42	48	54	71
Each	$9.30	10.20	11.10	12.10	13.00

Nos.	B34	B36	B38	B40
Width, inches	34	36	38	40
Length, inches	61	64	67	70
Thickness Closed, inches	6¼	6¼	6¼	6¼
Weight each about, lbs	78	82	86	90
Each	$14.80	16.70	18.50	21.30

EXTRA LENGTH.

Nos.	A36	A38	A40
Width, inches	36	38	40
Length, inches	76	76	80
Thickness Closed, inches	6¼	6¼	6¼
Weight each about, lbs	95	105	115
Each	$19.50	22.20	25.90

STANDARD, HAND.

Single Fold; Hardwood Outside Boards, Black Grained; with Handle Extensions and Leather Loop for Fastening; Galvanized Sheet Steel Cap and Funnel; Sheepskin Sides or Folds; Faced with Sheepskin Leather Strips and Studded with Tacks; Hole in Bottom 1¾ in., with Leather Valve Flap.

Nos.	H8	H10	H12
Width, inches	8	10	12
Length, inches	15¼	19	20½
Thickness Closed, inches	2	2	2
Weight per dozen about, lbs	18	26	36
Per dozen	$13.00	16.00	19.00

Packed Loose.

TUYERE IRONS.

BALL VALVE.

Cast Iron, Japanned, Extra Heavy, with Tapering Funnel; Revolving Triangular Ball Valve to Regulate the Flow of Air; ONE PIECE CYLINDRICAL BODY; Round Top Plate 6½ in. Diameter; With 2¾ in. Round Opening; Funnel 7½ in. Long, with 3⅝ in. Inlet, 3½ in. Bottom Opening, with Sliding Cover and Spring Steel Guide, with 23 in. Steel Rods to work Valve and Cover. Length over all (except Rods) 13¾ in.; Height 8¾ in.

Per Dozen

No. N—NORTON; Weight per dozen about 336 lbs..$32.00

Cast Iron; Japanned Finish Head and Neck.

No. 6—DUCK'S NEST; HEAVY WEIGHT; ROUND FLAT HEAD 7¼ in. Diameter; Made in Two Pieces, Bolted together, Diameter of Hole 4 in.; Length over all 14 in.; Weight per dozen about 204 lbs.....Per Dozen, $14.50

DUCK'S NEST.

Cast Iron; Natural Finish Head and Neck; Entire Iron Bolted Together.

No. 5—LIGHT WEIGHT; ROUND FLAT HEAD 7¼ in. Diameter; Diameter of Hole 3½ in.; Length over all 13½ in.; Weight per dozen about 108 lbs..Per Dozen, $8.00

Packed Loose.

FORGES.

PORTABLE.

BUFFALO.

Heavy Pressed Sheet Steel, Practically Indestructible. Four Tubular Steel Spread Legs. Equipped with No. 100 Buffalo Blower; Painted Black. This Forge is of a Rivet Type and is Especially Adapted to meet the needs of the Sheet Metal and Structural Steel Worker

No. 101—Height over all 45 in.; Diameter of Hearth 18 in.; Depth of Hearth 5 in.; Diameter of Fan 10 in.; Spread of Legs at Base 17 by 31 in.; Weight each about 125 lbs.....Each, $30.00

One In a Crate

FORGES.

BUFFALO.

Heavy Pressed Sheet Steel Bowl and Hood or Guard; Four Tubular Steel Spread Legs; Complete with Blower and Running Gear; Painted Black; Bent Hardwood Lever; Height to Top of Bowl 32 in., Bowl 28x40 in.; Large Gear Wheel 20 in. Diameter; Fan 10 in. Diameter; Spread of Legs at Base 41x38 in.

Each

No. 9—BLACKSMITHS', LEVER ACTION, WITH HALF OPEN HOOD Height over all 60 in.; Weight each about 255 lbs.....$42.00

BUFFALO.

Heavy Pressed Sheet Steel Bowl and Hood or Guard; Four Tubular Steel Spread Legs; Complete with Blower and Running Gear; Painted Black; Enclosed Double Gearing, Counter-balanced Crank; Height to Top of Bowl 35 in.; Bowl 18 in. Diameter, 5 in. Deep; Fan 10 in. Diameter; Spread of Legs at Base 17x31 in.

Each

No. 625—CONTRACTORS', CRANK ACTION, WITH WIND-GUARD; Height over all 45 in.; Weight each about 125 lbs.....$28.00

BUFFALO.

Heavy Pressed Sheet Steel Bowl and Hood or Guard; Four Tubular Steel Braced Legs, Spread at Base 20x20 in., Complete with Blower and Lever Action Running Gear; Bent Hardwood Lever; Height to Top of Bowl 38 in.; Bowl 18 in. Diameter; Large Gear Wheel 12 in. Diameter; Fan 6 in. Diameter; Painted Black.

Each

No. 4—TOOLMAKERS' WITH HALF OPEN HOOD; Height over all 62½ in.; Weight about 70 lbs.....$21.50

BUFFALO.

Heavy Pressed Sheet Steel Bowl and Hood or Guard; Four Tubular Steel Braced Legs; Spread at Base 20x30 in.; Complete with Blower and Lever Action Running Gear; Bent Hardwood Lever; Height to Top of Bowl 33 in.; Bowl 18 in. Diameter; Large Gear Wheel 12 in. Diameter, Fan 6 in. Diameter; Painted Black.

Each

No. 5—RIVETERS' OR CONTRACTORS', WITH WIND-GUARD; Height over all 43 in.; Weight each about 65 lbs. $19.00

PORTABLE.

Pressed Sheet Steel Bowl and Wind-Guard, Three Legs; Complete with Blower and Running Gear; Lever Action; Tubular Steel Braced Legs; Spread at Base 28 in., Height to Top of Bowl 31 in.; Bowl 21 in. in Diameter; Large Belt Wheel 15 in Diameter; Fan 9 in. Diameter; Painted Red.

Each

No. F100—LANCASTER RIVETERS' OR CONTRACTORS', Height over all 43 in.; Weight each about 80 lbs.....$10.50

PORTABLE BENCH.

Pressed Sheet Steel Bowl and Wind-Guard; Three Legs; Complete with Blower and Running Gear; Hand Gear Wheel Action; Concaved Bent 13 in. Legs; Spread at Base 18 in.; Height over all 21 in.; to Top of Bowl 15 in.; Bowl 15 in. Diameter; Large Gear Wheel 12 in. Diameter; Fan 6 in. Diameter; Painted Black.

No. 7—BUFFALO BENCH; Weight each about 40 lbs Each $13.50

One In a Crate

ICE CREAM FREEZERS

BLIZZARD

Sectional View Showing Dasher

With Crank

Single Action, Automatic Twin Scrapers, Pine Tubs, Drawn Steel Bottom Cans, Inside Parts Heavily Coated with Pure Block Tin, Galvanized Outside Parts, Electric Welded Wire Hoops

Capacity, Quarts	2*	3	4	6
Weight Each, Lbs.	8¾	10¼	12¾	17
Each	$2.80	3.20	3.80	4.90
Capacity, Quarts		8	10	12
Weight Each, Lbs.		21	25½	29¼
Each		$6.40	8.00	9.50

DAZEY GLASS

Heavy Clear Glass Jar and Cover with Rubber Ring, Steel Wire Cover Clamp, Perforated Steel Dasher with Triple Nickel Plated Steel Rod. All Metal Parts are Nickel Plated

	Per Dozen
Dazey Capacity 1 Quart, Height Overall 11 in., Diameter 4 in., Weight Per Dozen 50 Lbs.	$18.00

To make delicious Ice Cream prepare cream in regular way mixing the ingredients, place same in the Dazey Freezer, pack the jar in the usual ice and salt. Cover over with rug or sack and allow to stand for an hour or two. The cream can be dished out or removed in a loaf by using the metal removing Rod and Plate

This Freezer is provided with a dasher which can be used for beating eggs, whipping cream, light batters, icings and making butter

ICE CREAM PACKING TUBS

WESTERN STYLE

Style of 2 to 6 Quarts

Style of 8 to 40 Quarts

Best Seasoned Virginia White Cedar, Painted Inside and Out, Heavy Galvanized Hoops, Malleable Drop Handles

Quarts	2	4	*6	8	12
Inside Top, Diam., In.	8½	10	10½	11½	12½
Inside Bottom, Diam., In.	7½	9	9½	10½	11½
Depth, Inches	9¾	13¾	17	17½	19
Each	$1.10	1.90	2.40	2.90	3.20
Quarts	**16**	**20**	***24**	***30**	***40**
Inside Top, Diam., In.	13¾	15½	16	17¼	18½
Inside Bottom, Diam., In.	12½	14	14½	16	16½
Depth, Inches	23	24	24¼	26¼	29
Each	$4.50	5.00	7.00	8.00	9.50

2 to 6 quarts inclusive have galvanized wire bails; larger sizes have side handles.

Note—Sizes Starred (*) Not Carried in Stock, but shipped direct from factory.

ICE CREAM PACKING CANS

INSERTED BOTTOM

Coated with Pure Block Tin

Heavy Cold Rolled Steel Tempered to Stand Extreme Cold, Coated with Pure Block Tin to Stand Corrosion, Inserted Bottoms and Top Hoop Reinforced. The Strongest Can Made

Quarts	*2	4	8	12	*16	20
Weight Each, Lbs	2	2	3	5	9	12
Each	$1.00	1.30	1.70	2.10	2.50	2.70

*Note—2 and 16 Quart Sizes are Not Inserted Bottom

RAZORS.

Highest Grade Razor Steel, Uniformly Tempered, Carefully Ground, Tested, Honed, Ready for Use.

No. K44½

KEEN KUTTER*

PLAIN BLACK RUBBER HANDLE. Three-quarter Concaved Blade, Etched in Gold, Highly Polished; File Tang.

Nos.	K44½	K44½
Size, Inches		
Blade, point	Square	Square
Per dozen	$21.00	21.00

No. K419½H

ROYAL*.

PLAIN BLACK RUBBER HANDLE. Three-quarter Concaved Blade, Etched in Gold, Highly Polished, File Tang.

Nos.	K419½H	K419½R	K419½S
Size, Inches	½	½	½
Blade, point	Hollow	Round	Square
Per dozen	$30.00	30.00	30.00

Nos.	K419⅝H	K419⅝R	K419⅝S
Size, Inches	⅝	⅝	⅝
Blade, point	Hollow	Round	Square
Per dozen	$30.00	30.00	30.00

No. 421⅝S.

BARBERS' PET*.

Full Concaved Blade, Highly Polished File Tang.

PLAIN BLACK RUBBER HANDLE.

Nos.	421⅝S	421⅝H	421⅝R	421½S
Size, Inches	⅝	⅝	⅝	½
Blade, point	Square	Hollow	Round	Square
Per dozen	$36.00	36.00	36.00	36.00

Nos.	421⅝H	421⅝R	421⅝S
Size, Inches	⅝	⅝	⅝
Blade, point	Hollow	Round	Square
Per dozen	$36.00	36.00	36.00

Nos.	421½H	421½S
Size, Inches	½	½
Blade, point	Hollow	Square
Per dozen	$36.00	36.00

GENUINE IVORY HANDLE.

Nos.	421½H	421½S
Size, Inches	½	½
Blade, point	Hollow	Square
Per dozen	$54.00	54.00

Nos.	421⅝H	421⅝S
Size, Inches	⅝	⅝
Blade, point	Hollow	Square
Per dozen	$54.00	54.00

Highest Grade Razor Steel Blades, Uniformly Tempered, Carefully Ground and Tested, Honed, Ready for Use.

No. 422½S.

BONANZA*.

PLAIN BLACK RUBBER HANDLE, Full Concaved Blade, Etched, Full Crocus Finish File Tang.

Nos.	422½S	422⅝H	422⅝S
Size, Inches	½	⅝	⅝
Blade, point	Square	Hollow	Square
Per dozen	$48.00	48.00	48.00

One half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

RAZORS.

First Quality Razor Steel Blades, Uniformly Tempered, Carefully Ground and Tested, Honed Ready for Use.

No. 8½HP.

SPECIAL*.

PLAIN BLACK CELLULOID HANDLE. Double Concaved Blade, Highly Polished; Crimped Tang.

Nos.	8½S	8½H	8½R	8⅝S
Size, Inches	½	½	½	⅝
Blade, point	Square	Hollow	Round	Square
Per dozen	$30.00	30.00	30.00	30.00

OAK LEAF*

Highest Quality English Razor Steel Blades, Uniformly Tempered, CAREFULLY GROUND AND TESTED, HONED READY FOR USE.

PLAIN BLACK RUBBER HANDLE. Full Concaved Blade, Highly Polished, with Trade Mark Etched in Gold in Center of Blade, File Tang.

Nos.	1521S	1521R
Size, Inches	½	½
Blade, point	Square	Round
Per dozen	$30.00	30.00

PLAIN BLACK RUBBER HANDLE. Seven-eighths Concaved Blade, Highly Polished, with Trade Mark Etched in Gold in Center of Blade, File Tang.

Per Dozen

No. 1021—⅝ in. Size, Square Blade Point..... $30.00

Old English Oak Leaf Design CELLULOID HANDLE. Three-quarter Concaved Blade, Highly Polished with Trade Mark Etched in Gold in Center of Blade, File Tang.

Per Dozen

No. 1017—⅝ in Size Square Point Blade..... $27.00

PLAIN BLACK RUBBER HANDLE, Three-quarter Concaved Blade, with Trade Mark Stamped in Center of Blade, File Tang.

Nos.	1518S	1518R
Size, Inches	⅝	⅝
Blade, point	Square	Round
Per dozen	$21.00	21.00

SENATOR*.

IMITATION SHELL HANDLE, Three Quarter Concaved Blade; Etched; Full Crocus Polished; Plain Tang.

Per Dozen

No. 418—Hollow Point Blade, ⅝ in. Wide..... $20.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

RAZORS.

First Quality Razor Steel Blades, Uniformly Tempered, Carefully Ground and Tested, Honed Ready for Use.

SIMMONS*.

PLAIN BLACK RUBBER HANDLE, Three-quarter Concaved Blade, Highly Polished; Gimped Tang

No. 1½ S

Nos.	1½R	1 S	1½H	1½R	1½ S
Size, inches	½		⅝	⅝	⅝
Blade, point	Round	Square	Hollow	Round	Square
Per dozen	$18.00	18.00	18.00	18.00	18.00

PLAIN WHITE CELLULOID HANDLE; Three-quarter Concaved Blade, Highly Polished; Gimped Tang.

No. 3 S

Nos.	3 S	3H
Size, inches	⅝	⅝
Blade, point	Square	Hollow
Per dozen	$18.00	18.00

SUPERIOR.*

FANCY WHITE CELLULOID HANDLE, Three-quarter Concaved Blade, Etched in Gold; Gimped Tang.

No. 5 S

Nos.	5H	5 S
Size, inches	⅝	⅝
Blade, point	Hollow	Square
Per dozen	$18.00	18.00

EXCELSIOR.*

PLAIN BLACK RUBBER HANDLE, Three-quarter Concaved Blade, Etched and Polished; File Tang

No. 1448½R

Nos.	1448½R	1448½H	1448½ S
Size, inches	⅝	⅝	⅝
Blade, point	Round	Hollow	Square
Per dozen	$13.00	13.00	13.00

Extra Quality Razor Steel Blades, Highly Tempered Carefully Ground and Tested, Honed Ready for Use.

WOSTENHOLM'S PIPE.

PLAIN BLACK RUBBER HANDLE; One-half Concaved Blade, Etched and Polished; Plain Tang

Per Dozen

No. 02363 — Square Point Blade, ⅝ Wide. $20.00

PLAIN BLACK RUBBER HANDLE; Three-Quarter Concaved Blade, Highly Polished; Plain Tang.

Nos.	01163½R	01163½/S
Size, inches	⅝	⅝
Blade, point	Round	Square
Per dozen	[illegible]	[illegible]

PLAIN BLACK RUBBER HANDLE; Full Concaved Blade, Polished, Plain Tang

Per Dozen

No. 04461—Square Point Blade, ⅝ in. Wide. $27.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs

RAZORS.

Extra Quality Razor Steel Blades, Highly Tempered Carefully Ground and Tested, Honed, Ready for Use.

WOSTENHOLM'S PIPE

PLAIN BLACK RUBBER HANDLE; One-half Concaved Blade, Etched in Gold, Highly Polished, Plain Tang.

Per Dozen

No. 03482—Square Point Blade, ⅝ in. Wide. $18.00

WOSTENHOLM'S PIPE

TRANSPARENT CELLULOID HANDLE; Concaved Blade Etched and Polished; Plain Tang.

No. 02353—Square Point Blade, ⅝ in. Wide. . Dozen, $15.00

PLAIN BLACK RUBBER HANDLE; One-half Concaved Blade Etched and Polished; Gimped Tang.

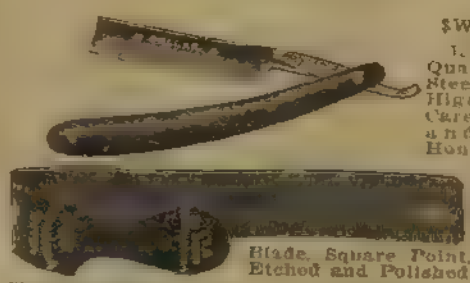
Per Dozen

No. 249—Square Point Blade, ⅝ in. Wide. $9.00

One-half Dozen in a Cardboard Box. Weight per Dozen about 2 lbs.

RAZOR AND STROP.

DOLLAR SWEEPSTAKE



RAZORS, Extra Quality Razor Steel Blades, Highly Tempered, Carefully Ground and Tested, Honed, Ready for Use; PLAIN BLACK RUBBER HANDLE, Three-quarter Concaved Blade, Square Point, ⅝ in. Wide, Etched and Polished; File Tang.

STROP—Single Swing; Extra Quality Calfskin, Black Color; Nickel Plated Eyelet; Fashioned Handle Length over all 22 in.; Width 2 in.

No. 19—Sweepstake Razor and Strop. . . Per Dozen, $17.00

Packed Separately, One Dozen Strops in a Cardboard Box; Weight per Dozen about 1 lb.

One Dozen Razors in a Cardboard Box; Weight per Dozen about 4 lbs.

RAZOR HANDLES.

Complete with Washer and Rivet; 5⅝ in. Long.

PLAIN BLACK RUBBER

Nos.	B½	B⅝	B¾
Weight per dozen about, lbs			
Per dozen	$2.50	2.50	2.50

PLAIN WHITE CELLULOID

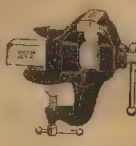
Nos.	W½	W⅝	W¾
Weight per dozen about, lbs			
Per dozen	$4.00	4.00	4.00

Packed [illegible]

VICTOR JERSEY BENCH VISES

Fitted Just Like a Machine Vise with Loose Malleable Iron Nut, which Causes the Screw and Square Box Slide to Work Smooth and Easy. Jaws are Carefully Ground and Come Square Together on the Face

Brown Japanned Cast Iron Body, Polished Jaws, Slide and Screw End; Steel Sliding Bar



STATIONARY BOTTOM
To Clamp

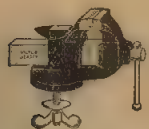
PLAIN IRON JAWS

Nos.	741	742	743	744	745	746
Width of Jaws, In.	1¼	1¾	2	2½	2¾	3
Length Closed, In.	5¾	5¾	6	6¼	7	8¾
Weight Each, Lbs.	3	3½	3½	4	5	8½
Each	$1 25	1 60	1 80	2 40	2 80	3 85

STEEL FACED JAWS WELDED

Nos.	761	762	763	764	765	766
Width of Jaws, In.	1¼	1¾	2	2½	2¾	3
Length Closed, In.	5¾	5¾	6	6¼	7	8¾
Weight Each, Lbs.	3	3½	3½	4	5	8½
Each	$1.70	1 95	2.40	2.80	3.50	4.90

Loose



SWIVEL BASE; STEEL FACED JAWS

Nos.	772	773	774	775	776
Width of Jaws, Inches	1¾	2	2½	2¾	3
Length Closed, Inches	5¾	5¾	6¼	7	8¾
Weight Each, Lbs.	3	3½	4½	5½	9½
Each	$1 95	2 40	3 15	3 85	5.50

Loose

ASSORTMENTS WITH DISPLAY STAND

VICTOR JERSEY BENCH VISES

Cast Iron Standards, Black Painted with Silver Gray Lettering; Maple Ring and Base Board

Dimensions: Spread at Base 13x12½ inches, Height 31 inches.

No12

ASSORTMENTS; WITH DISPLAY STAND

										Per Assortment
No. BX12—Twelve Vises and Stand; Weight 64 lbs.										**$24.00**
Nos.	741	742	743	744	745	746	761	762	772	
Quantities	2	2	2	1	1	1	1	1	1	
No. BX18—Eighteen Vises and Stand; Weight 93 lbs										**$42.60**
Nos.	741	742	743	744	745	746	761	762	772	774
Quantities	3	3	3	2	2	1	1	1	1	1

Each Assortment Complete in Case

SHEPARD STATIONARY

Japanned Cast Iron Base, Wrought Steel Jaws, Paralel Jaws, Polished Steel Screw and Sliding Bar, Polished Jaws and Slide, Used as Stationary or Swivel Bottom Vise. Equipped with Center Bolt, Nut and Washer for Fastening to Bench, also Provided with Bolt Holes for Permanently Securing to Bench.

Nos.	160	161	161½	162	163
Width of Jaws, Inches	2	2½	3	3½	4
Jaws Open, Inches	2	3	3½	4	6
Length Closed, Inches	8	9½	11¾	11¾	15
Weight Each, Lbs.	4	10	12	18	30
Each	$3.00	3 70	4 50	5 00	7.00

Loose

PRENTISS "BULL DOG" WOOD WORKERS STATIONARY

Japanned Cast Iron Base, Wrought Steel Jaws, Parallel Jaws, Polished Steel Screw and Sliding Bar, Polished Jaws and Slide

Designed for Use of Carriage and Wagon Makers, Pattern Makers and Wood Workers Generally

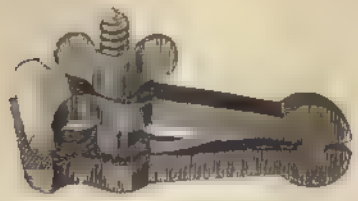
No.	59
Width of Jaws Inches	4¾
Jaws Open Inches	9
Length Closed Inches	13½
Weight Each, Lbs.	48
Each	$11 00
	10.00

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

HAND VISES

STANDARD



No. 140—Black Malleable Iron Hinged Jaws, Polished Head, Wing Nut

Length, Inches	3½	4
Weight Per Dozen, Lbs.	3	3½
Per Dozen	$4.80	5.70

Open Stock

No. 144—Bright Malleable Iron Hinged Jaws, Steel Bolt, Wing Nut, Wood Handle

Length, Inches	4	4½
Weight Per Dozen, Lbs.	6	7
Per Dozen	$6.00	7.00

One-half Dozen in a Box

BOSS

Per Dozen

No. 340—6 in. Long, Width of Jaws 1¼ in., Jaws Open ¾ in., Case Hardened Head, Polished Jaws, Beechwood Handle . . . $15.00

Weight Per Dozen 6 Pounds

One-half Dozen in a Box

B.-M.

Per Dozen

No. 50—Hardened Steel Jaws, Carbon Finish, Holds ⅜ in. and Smaller, with Octagon Metal Handle which can be Clamped in a Vise $26.40

Weight Per Dozen 6 Pounds

One-twelfth Dozen in a Box

VISE ASSORTMENTS

VICTOR "JERSEY"

Per Assortment

No. 12 Assortment Consists of Two Each Nos. 741, 742 and 744, One Each Nos. 744, 745, 746, 761, 763 and 772 Japanned Victor "Jersey" Vises and Attractive Display Stand, Weight Complete 64 Lbs. $24.00

Description of Vises Contained in No. 12 Assortment

Nos.	741	742	743	744	745
Width of Jaws, Inches	1½	1¾	2	2¼	2½
Weight Each, Lbs.	3	3¼	3½	4	5

Nos.	746	761	763	772
Width of Jaws, Inches	3	1½	2	1¾
Weight Each, Lbs.	3¾	2	3½	3

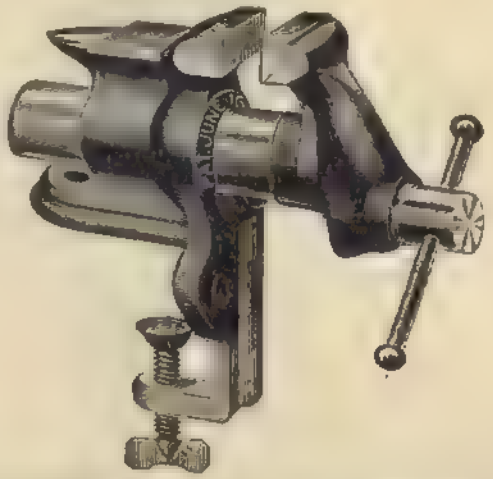
Nos. 741 to 746 have clamp base and plain iron jaws. Nos. 761 and 763 have clamp base and hardened tool steel jaws. No. 772 has swivel base and hardened tool steel jaws.

The screw is turned from cold rolled steel and has a square lathe-cut thread.

One Assortment in a Case

VISES

PHOENIX CLAMP



Japanned Body, Ground and Polished Jaws and Horn, Steel Screw and Lever

Per Dozen

No. 1½—Without Anvil, 1 in. Jaws, Open 1¼ in., Weight Each 6½ Oz. . . . . $ 6.00

No. 2½—With Anvil, 1½ in. Jaws, Open 1¾ in., Weight Each 1¾ Lbs. 7.80

No. 2¾—With Anvil, 1¾ in. Jaws, Open 2 in., Weight Each 2¾ Lbs. 9.60

No. 3½—Chilled Jaws and Anvil, 2 in. Jaws, Open 2¼ in., Weight Each 4½ Lbs. 18.00

No. 4½—Chilled Jaws and Anvil, 2½ in. Jaws, Open 2¾ in., Weight Each 9½ Lbs. 30.00

No. 5½—Steel Jaws, with Anvil, 2½ in. Jaws, Open 2¾ in., Weight Each 9½ Lbs. 33.60

FARM AND BUILDERS' LEVELS.

BOSTROM'S

The Farm Level meets every requirement of the Farmer or Ranchman for all kinds of Drainage Work, Terracing Land, Road Building, Fence Building, Grading, Setting Out Orchards, etc. The Builders' Level is constructed along the same lines as the Farm Level, but with the special view of meeting the requirements of Builders and Contractors. Instead of the Face Plate and Turret being made of Cast Iron as in the Farm Level, it is made entirely of Brass and can therefore be equipped with a Compass if desired. The Telescope on both Levels is made of Brass, is Achromatic, gives a Clear Field, and contains a System of Magnifying Glasses making it possible to accurately read the Target over 400 yards away. The Telescope rests on a Revolving Turret. It has a Circle of Degrees for obtaining Angles; it has a Spirit Bubble and all necessary means of adjustment. A Tripod, Plumb Bob, Graduated Rod and Target are furnished with each Level. The Tripod and Rod are made of Yellow Pine and Varnished. The Level is put up in a Neat Wood Case where it can be kept when not in use.

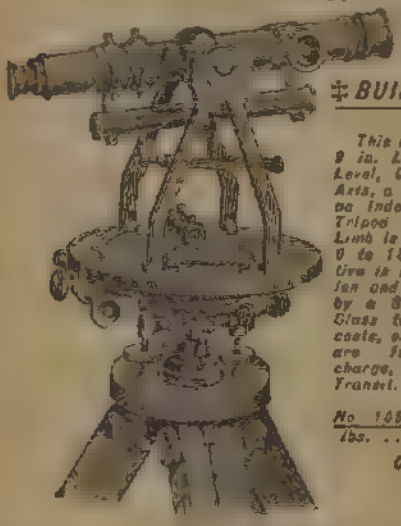
Each

No. F—BOSTROM'S FARM LEVEL; Weight complete about 15 lbs. $26.00

No. B—BOSTROM'S BUILDERS' LEVEL; Weight complete about 15 lbs. 42.00

Level Packed in a Polished Hardwood Box; Tripod and Target Rod Wrapped in Paper.

‡BUILDERS' TRANSIT.



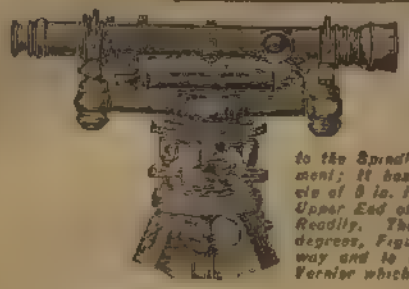
This instrument has a Telescope 9 in. Long with Long Graduated Level, Clamp and Tangent to the Axis, a Graduated Limb reading by an Index to One Degree. Plain Tripod with Trivet Plate. The Limb is figured in one row, from 0 to 180 each way. The Objective is moved by a Rack and Pinion and the Eye Piece is Focused by a Spiral movement. A Dust Glass to the Object Glass Slide costs, extra, $5.00. Stadia Wires are furnished without extra charge, if ordered with the Transit.

Each

No. 105—Weight complete 13 lbs. $102.00

One in a Wood Box.

‡ARCHITECTS' LEVEL.



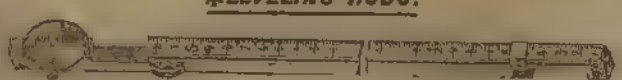
This Level has a Telescope 12 in. Long, furnished with Rings and Y's like the Larger Levels and Adjusted in the same manner. The Leveling Head has the ordinary Screws and a Clamp to the Spindle, but no Tangent movement; it has also a Horizontal Circle of 3 in. in diameter, fitted to the Upper End of the Socket and Turning Readily. The Circle is graduated to degrees, Figured from 0 to 90 each way and is read to 5 minutes by a Vernier which is fixed to the Spindle.

Each

No. 380—With Tripod $102.00

One in a Box.

‡LEVELING RODS.



No. 605—NEW YORK ROD, 2 ply 6⅞ feet closed, sliding to 12 feet, Graduated to feet, 10ths and 100ths, with Vernier Reading to 1000ths ..... Each, $30.00

Packed Loose.

‡VERNIER COMPASS.

Each

No. 227—Polished Brass Case; With 6 in. Needle and Variation Arc Outside the Compass Circle, as Shown. $32.00

‡POCKET VERNIER COMPASS.

This is a most excellent and portable instrument for preliminary work, having a fine needle and also a Vernier and Clamping Nut by which the Sights can be placed at an angle with the line of zeros, so as to set off the variation of the Needle, as with the Vernier Compass.

The Sights are made with a slit in the south vane, and a hair in the north one in the 3½ in. Compass as shown, and half slit and half hair in each Sight of the 4½ in. Compass, for readily finding the object; They also fold down to the Compass when it is packed in the case.

The Compass is furnished with staff mountings; Often a very light Tripod is ordered for it; it has also two Levels.

Can furnish two sizes of Pocket Vernier Compass having Needles of 3½ and 4½ in. respectively; Both have the Compass Circle graduated to half degrees. In the 3½ in. size the variation Vernier reads to five minutes, in the 4½ in. size the variation is set off to single minutes. When desired, a rack and pinion movement is supplied, in order to set off the variations more readily, and the extra cost is $5.00.

Each

No. 300—Pocket Vernier Compass, 3½ in. Needle, Folding Sights, Two Levels and Staff Mountings; Weight each about 1¾ lbs. .. $24.00

No. 305—Pocket Vernier Compass, 4½ in. Needle, Folding Sights, Two Levels and Staff Mountings; Weight each about 2¾ lbs. .. 28.00

TRIPOD FOR POCKET VERNIER COMPASSES 11.00

One in a Mahogany Box.

‡SURVEYORS' CHAIN TAPES.

LUFKIN'S

This Tape has Detachable Rings; The Varnished Hardwood Reel has Steel Cross Arms which keep the Tapes in place when Winding or Unwinding; When in use and removed from the Reel, the Metal Cross Arms at the Reel Fold into the Wooden Frame, so that even large Sizes can be conveniently carried in the pocket. The Reel can be firmly held by running the hand through the Strong Leather Loop, fastened to the side of same. These Reels are especially desirable for the Longer Tapes. Heavy Steel Tape ⅝ in. wide

For Graduations, See below.

Nos.	570	300
Length of Tape in feet	100	300
Weight each about, lbs.	4	6½
Each	$11.70	22.00

Cut Shows Graduations

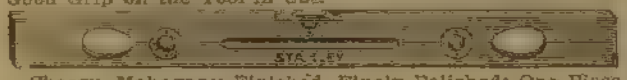
Graduated on one Side only in feet, every foot, and feet graduated to 10ths or 12ths; Unless otherwise specified will be sent and feet in 10ths. The graduations are not made with rivets, which weaken the Tape, or with soft metal, which makes it clumsy and wears off, but wherever graduated the Steel has a Bright Raised Surface with the Figures Etched in, the Steel being Tempered and of the Finest quality, the Letters and Figures will never become indistinct.

One-twelfth Dozen in a Cardboard Box

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

PLUMBS AND LEVELS.

STANLEY'S, WITH "HANDY" GROOVE
The Shallow Grooves along the Two Sides Afford a Good Grip on the Tool in Use.



Cherry, Mahogany Finished, Finely Polished; One Piece Stock; Heavy Brass Top Plate; Brass Lipped Side Views Adapted for Plumb Bob and Line at both ends

No. 45H—STANLEY'S; MASONS' ADJUSTABLE; LENGTH 48 IN.; Weight per dozen about 54 lbs. Per Dozen $55.00

Cherry, Mahogany Finished, Finely Polished, One Piece Stock, Brass Top Plate; Side Views.

No. 8H—STANLEY'S; MASONS'. Length 42 in; Weight per dozen about 35 lbs..... Per Dozen, $31.00

Cherry, Mahogany Stained; One Piece Stock; Brass Top Plate, Side Views; Adapted for Plumb and Line.

No. 35H STANLEY'S; MASONS' ADJUSTABLE LENGTH 42 IN.; Weight per dozen about 50 lbs Per Dozen $27.50

The Glasses in Stanley Levels are Tested and Marked with Two Indelible Lines between which the Air Bubble must stop when Level.

DISSTON'S.

Hardwood, Mahogany Stained; One Piece Stock; Brass Top Plate; Side Views; Complete with Japanned Iron Plumb Bob; Adapted for Plumb Bob and Line.

No. 89—DISSTON'S MASONS' ADJUSTABLE; LENGTH 42 IN.; Weight per dozen about 48 lbs. Per Doz..$25.00

One-half Dozen in a Case.

NICKEL PLATED CAST IRON FRAME, Ground Glasses encased in Nickel Plated Adjustable Steel Eclipse Cases, which Protect Glass from being broken; One Level Glass and Two Plumb Glasses.

Nos.	3718	3724
Length, inches	18	24
Weight per dozen about, lbs.	36	48
Per dozen	$53.00	62.00

JAPANNED CAST IRON FRAME with Nickel Plated Edges; Adjustable Proved Glasses encased in Nickel Plated Steel Casing; One Level Glass and Two Plumb Glasses.

Nos.	366	369	3612	3618	3624
Length, in.	6	9	12	18	24
Wgt. per doz. abt., lbs.	10	15	24	36	48
Per dozen	$20.00	24.00	31.00	37.00	42.00

One-twelfth Dozen in a Cardboard Box.

MACHINIST'S LEVEL. NICKEL PLATED, CAST IRON FRAME; Nickel Plated Steel Top, Screwed to Frame; Two Side Views. Per Dozen

No. 38½—LENGTH 4 IN.; Weight doz. about 3½ lbs. $8.50
No. 39½—LENGTH 6 in.; Weight doz. about 7 lbs... 10.00

One-half Dozen in a Cardboard Box.

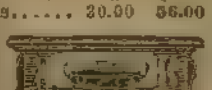
DAVIS'.
Machinists' Iron Plumbs, Levels and Inclinometers.

CAST IRON FRAME; Japanned Center and Polished Edges, Brass Center Cylinder, with Inclinometer Graduations and Indicator; Can be used as a Plumb, Level or Inclinometer.

Per Dozen
No. 3D—Length 18 in.; weight per dozen about 42 lbs..... $36.00 66.80

No. 4D—Length 24 in., Weight per dozen about 60 lbs..... 44.00 77.80

Per Dozen
No. 1D Length 7 in.; Weight per dozen about 18 lbs. $27.00 45.20
No. 2D—Length 12 in., Weight per dozen about 24 lbs..... 30.00 56.00



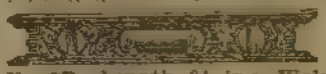
Per Dozen
No. 5D—Length 6 in., Weight per dozen about 12 lbs.....$24.00 38.00
No. 7D—Length 12 in.; Weight per dozen about 24 lbs..... 42.50

One-twelfth Dozen in a Cardboard Box.

PLUMBS AND LEVELS.

DAVIS.
Carpenters' and Machinists' Double.

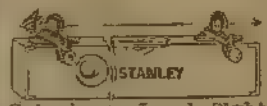
CAST IRON FRAME, Japanned Center and Polished Edges, Glasses [illegible] Nickel Plated Steel Cases, Adjustable [illegible] Two Plumb Glasses.



Per Dozen.
No. 8D—Length 18 in.; Weight per dozen about 36 lbs.....$30.00 47.00
No. 9D—Length 24 in.; Weight per dozen about 48 lbs.. ..... 36.00 56.00

One-twelfth Dozen in a Cardboard Box.

LEVEL SIGHTS.



Cut shows Level Sight and mode of shipment.

Adjustable; Cast Iron Frame, Polished and Blued Finish; Steel Set Screws; Width of Clamp 1⅝ in; Fastened to Lever by Set Auger Bits

No. 1—STANLEY'S; Weight per dozen pairs about 3 lbs. Per Dozen Pairs.....$14.00

One-twelfth Dozen Pairs in a Cardboard Box.

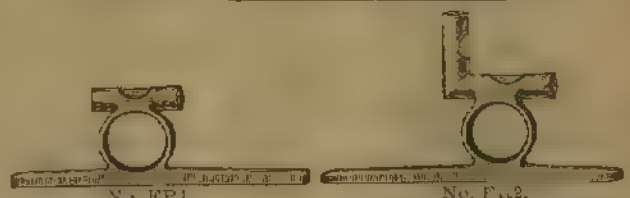
BIT AND SQUARE LEVELS.

Cast Brass Frame and Set Screw; Width 1⅛ in.; Fits Regular Steel Squares and Auger Bits.

No. 44—Weight per dozen about 2 lbs. Per Dozen..$6.40

One-twelfth Dozen in a Cardboard Box.

MASONS' FINGER RING LEVELS.



No. FR1 No. FR2.

Used by Masons in Truing up Brick and Stone Work; Made of Aluminum Alloy and Polished; Hole in Level for Slipping on Finger. Length 4¼ in. Per Dozen

No. FR1—LEVEL ONLY; Weight per dozen 1½ lbs.$10.00
No. FR2—COMBINATION PLUMB AND LEVEL; Weight per dozen about 2½ lbs..... 14.00

One-twelfth Dozen in a Cardboard Box.

POCKET LEVELS.

Polished Rosewood; Nickel Plated Steel Top Plate.

No. 200—LENGTH 6 IN.; Weight per dozen about 2 lbs. Per Dozen.....$4.20

One-half Dozen in a Carboard Box.

Nickel Plated Hexagon Shape Steel Case; Proved Glasses

Nos.	312½	313½
Length, inches	2½	3½
Weight per dozen about, lbs.	½	1
Per Dozen	$3.40	5.00

One Dozen in a Cardboard Box.

Japanned Cast Iron; Steel Set Screws; Length 3⅛ in. Per Dozen

No. 40—Japanned Cast Iron Top Plate $2.20
No. 41—Brass Top Plate... 2.40

One Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

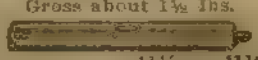
LEVEL GLASSES.

For *KEEN KUTTER* Levels.

These are the same Glasses as are used in the *KEEN KUTTER* Plumbs and Levels

Nos.	K1½	K2	K2½	K3	K4S
Length, inches	1½	2	2½	3	1½, 2, 3
Per Gross	$16.00	16.00	16.00	16.00	16.00

One-twelfth Gross in a Cardboard Box; Weight per Gross about 1½ lbs.



Nos.	41½	41½	41⅝	42
Length, inches	1½	1½	1⅝	1⅝
Per Gross	$8.00	8.00	8.50	9.50
Nos.	42½	43	43½	44
Length, inches	1⅝	1⅝	1⅝	1⅝
Per Gross	$10.00	13.00	15.00	12.00

One-twelfth Gross in a Cardboard Box; Weight per Gross about 2½ lbs

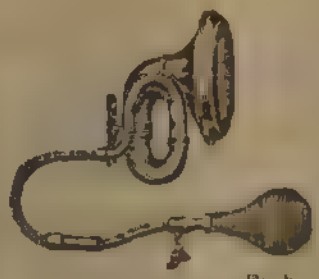
AUTOMOBILE HORNS.

ALL BRASS COMPLETE WITH BULBS.

No. 1052—COMPLETE; Triple Twist, Latest Design; 8 in. Oval Bell; Used on Large Touring Car and Limousines; Weight each about 4 lbs....$11.50

Each

No. 1062—COMPLETE. Oval Bell 7 in Diameter Very Neat Finish; English Double Twist; Wgt each about 3¼ lbs...$8.00



No. 70—COMPLETE. Loud in Center of Tube, effecting a Very Deep Tone; 7 in. Oval Bell; Weight each about 3 lbs. $6.50

Each

No. 1076—COMPLETE; Oval Bell, 5¼ in. Diameter; A Very convenient Size for any car. Loud Tone. Weight each about 3¼ lbs. $8.00

Highly Polished, Serpentine Shape. Each

No. 1078—Complete with 5 in. Bulb; 40 in. Tube with Reed in center which does away with sticking of Reed; Will not clog; Has an Attractive Deep Tone. Weight each about 2 lbs. $5.50

Each

No. 1049—For Runabouts and Motor Buggies; 5¼ in. Bell with Special Attaching Bracket; Weight each about 1 lb..... $3.00

One in a Cardboard Box.

HORN REEDS.

GENUINE RUBES.

Rubes Reeds are Non-corrosive Vibratory Composition Reeds. They are not affected by the Weather. Will fit any Horn.

No. 1031—PLAIN $0.40

Packed Loose Weight Each about 1 oz.

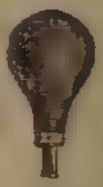
HORN TUBES.

FLEXIBLE.

Size. No. 1032—Standard Lengths.	Each
40x¾ in.	$1.50
50x⅞ in.	1.70
60x⅞ in.	2.20
50x⅞ in.	2.60
50x⅞ in.	2.40
60x⅞ in.	2.60

HORN BULBS.

"NONPAREIL."



Nonpareil Bulbs are best on the market; Chemically cured. Soft and Pliable; Absolutely Guaranteed not to Crack.

	Each
No. 1111—5 in	$1.10
No. 1112—5½ in	1.20
No. 1115—6 in	1.40

One in a Cardboard Box; Weight Each about ⅝ lb.

AUTOMOBILE CLOCKS.

The Movements in these Clocks are the Best Procurable at the Price, and as the Quality Improves the Price Increases in Proportion. They are Constructed to withstand Rough Usage and Bumps such as Fixtures that are attached to an Automobile must stand.

PHINNEY-WALKER CO., KEYLESS.

Rim Wind, 8-Day Clock; 2 in. Dial; To Fasten to Dashboard, remove Screw at Base of Case, Insert Key and Loosen Bolt, which is under Screw; Screw Case to Dashboard; When Clock is properly fastened no one is able to remove it without Key.

	Each
No. 30AB—All Brass	$11.50
No. 30ABN—Black Enameled Case, Nickel Plated Rim	11.50
No. 30ABB—Black Enameled Case, Brass Rim	11.50
No. 30AN—All Nickel Plated	11.50

Weight Each about 3¼ lbs.

PHINNEY-WALKER CO., KEYLESS.

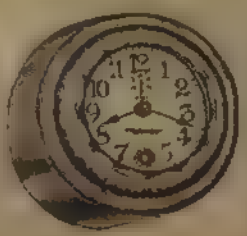
Rim Wind, 8-Day Clock; 2½ in. Dial; To Fasten to Dashboard remove Screw, which is directly beneath Figure 6 Insert Key and loosen Bolt which lies beneath Screw; Clock is then removed from Case and Case is screwed to Dashboard. This Screw and Bolt arrangement makes it impossible for anyone to steal the Clock from the Auto.

	Each
No. 35AB—All Brass	$11.50
No. 35ABN—Black Enameled Case Nickel Plated Rim	13.50
No. 35ABB—Black Enameled Case, Brass Rim	13.50
No. 35AN—All Nickel Plated	13.50

Weight Each about 2½ lbs.

One in a Cardboard Case, Complete with Screws and Key

NEW HAVEN CLOCK CO.'S NEW ARMAND.



Black Enamel Finish, 7 DAY CLOCK 2½ in. Dial; Key Winding. Unscrew bezel and wind clock with square end of key; To attach to Dashboard remove the screw over figure 12 with triangular end of key; Remove Strip on back of clock to fasten to dashboard; Fit Clock into slot and tightly screw in hole over figure 12

Each

No. 254 AUTO CLOCK with Key Weight each 1½ lbs $7.50

One in a Cardboard Box.

AUTOMOBILE CLOCKS.

NEW HAVEN CLOCK CO.'S JERICHO

Brass Case; 7 DAY; Dial 2½ in. in diameter; T. Winding screw head in case by turning to left. Wind clock with square end of Key. Pry bezel from case and insert triangular end of key in hole over the figure 12 and remove screw; Remove Brass Strip on back of case to fasten to Dashboard; Fit clock into Slot on Brass Strip and drop long triangular shaped head screw in the hole above figure 12 and screw clock tightly to dashboard; Use bolts and nuts for iron or steel dashboards only.

No. 15A—CLOCK, with Key; Weight 16 oz.....Each, $7.00

All Brass Lacquered; 24 HOUR Clock; 2 in. dial; Bevel edge; Heavy brass fitted with double roller movement, which guarantees them not to overbank; Key winding, with key attached.

No. 20A—AUTO CLOCK, with Key; Weight 14 oz.....$6.50

Brass Case, Lacquered, 24 HOUR Clock; 2 in. Dial; Key Winding; Fitted with Double Roller Movement, which guarantees them not to overbank; Fastened to Dashboard with three screws; Clock is Fastened to Case by a Lock Hinge.

No. 10A—AUTO CLOCK, with Key; Weight each 14 oz., including Screws ....Each, $4.50

One in a Cardboard Box.

COMBINATION AUTO AND DESK CLOCK.

Gun Metal Finish; Watch is Removed from case to fasten case to Dashboard with screw; 24 Hour Watch; Stem Winding; Dial 1½ in. in diameter.

No. 3A—AUTO DESK COMBINATION; Weight each 5 oz.....$3.00

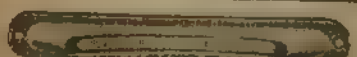
NEW HAVEN CLOCK CO.'S DEVERE.

Brass Case and Bracket, polished; The Bracket is Fastened to Dash with three screws; 24 Hour Watch, Stem Winding; Dial 1½ in. in diameter.

No. 1A—AUTO WATCH; Weight each 3½ oz., including Screws....Each, $3.00

One in a Cardboard Box.

GRADE METERS.



ECLIPSE

Intended to Show what Grade a Car is going, whether it be Up or Down. The Eclipse Grade Meter will give you this information up to a 30% Grade; it is Neat and Small, Absolutely Accurate, Highly Nickel Plated; 5½ in. Long, 1 in. Wide; Made with Screw Holes to Fasten to the Car. The Indicator is in a Glass Tube.

No. GM $2.50

One in a Paper Box; Weight Each about 2 oz.

By making frequent calls on our Mail Order Department it you will be able to keep your stock complete and up-to-date and hold your trade at home.

SPEEDOMETERS.

STEWART'S.

Indicates the Speed at which the Car is moving and Registers the number of Miles Traversed.

Entire Case One Piece Drawn Brass, Black Enameled Finish, with Brass Rims; Aluminum Dial, with Large Black Figures; Heavy Beveled Glass.

The Speed Indicator is governed by a Chain in a Flexible Shaft extending from the Front Wheel of the Automobile to the Instrument, Causing Magnets, machined from Imported Tungsten Steel, Hardened and Magnetized and attached to a Rotor, to Revolve; The line of force flowing from the Magnets causes a Cup made of Alloy Metal, having a Low Resistance, to revolve in the same direction as the Magnets, but the tendency to revolve is resisted by a Spring exactly proportionate with the speed at which the Magnets revolve, and the Speed is Indicated by Printed Numbers on the Outside of the Cup, which is Exposed to View, and the Drag or Pull on the Cup makes the Speed Indicator Move as the Speed of the Machine is Increased or Decreased.

Not Affected by Weather Conditions, equipped with a device for Compensating Temperature Variations; the Disc Controlling the Indicator is made of an Alloy Metal which is not affected by Changes in Temperature.

COMBINATION.—4 in. Dial; 100,000 Mile Season Odometer, 100 Mile Trip Register, Reset to 0 by applying pressure on a Projecting Pin; Grade Indicator and Electric Light Fixtures with Bulb, mounted complete on a Brass Base.

Each

No. B1—Will Indicate Speed up to 100 Miles per Hour; Fitted with 2½ in. Stewart 8-Day Rim Wind Clock—(Not Rim Set).$65.00

No. B1—Will Indicate speed up to 60 Miles per Hour; Fitted with Seth Thomas 8-Day, 4-Jewel, Rim Wind and Rim Set Clock $85.00 $112.40

No. B3—Will Indicate Speed up to 100 Miles per Hour; Fitted with Seth Thomas 8-Day 4-Jewel, Rim Wind and Rim Set Clock $0.00 120.00

One in a Wood Box; Weight Each about 16 lbs.

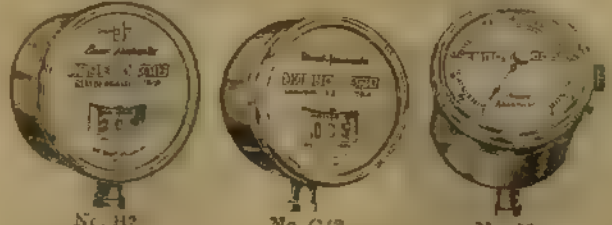
COMBINATION.—3 in. Dial; 100,000 Mile Season Odometer; 100 Mile Trip Register, Reset to 0 by applying pressure on a Projecting Pin; Fitted with a 2½ in. Stewart 8-Day, Rim Wind Clock (Not Rim Set) Mounted complete on a Brass Base.

Each

No. C/1—Will Indicate Speed up to 60 Miles per Hour.$40.00 $53.40

No. C/3—Will Indicate Speed up to 100 Miles per Hour. 45.00 60.00

One in a Wood Box; Weight Each about 15 lbs.



No. B2 No. C/2 No. 26

Dials 4 in. in Diameter; 100,000 Mile Season Odometer; 100 Mile Trip Regulator, Reset to 0 by applying pressure on a Projecting Pin and Grade Indicator.

Each

No. B—Will Indicate Speed up to 60 Miles per Hour..$50.00 66.70

No. B2—Will Indicate Speed up to 100 Miles per Hour 55.00 73.40

Dial 3 in. in Diameter; 100,000 Mile Season Odometer, and 100 Mile Trip Register; Reset to 0 by applying pressure on a Projecting Pin.

Each

No. C—Will Indicate Speed up to 60 Miles per Hour...$25.00 33.40

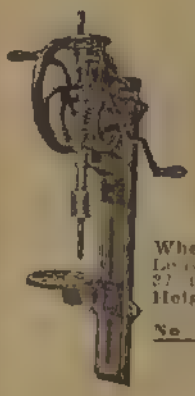
No. C 2—Will Indicate Speed up to 100 Miles per Hour 30.00 40.00

With Hand Indicator Instead of the Revolving Dial Dial 3 in. in Diameter; 100,000 Mile Season Odometer 100 Mile Trip Register, Reset to 0 by applying pressure on a Projecting Pin.

No. 26—Will Indicate Speed up to 60 Miles per Hour...$20.00 26.20

One in a Wood Box. Weight Each about 12 lbs.

POST DRILLS.



Painted Cast Iron Frame, Gearing, Feed, Fly Wheels and Table; Steel Shaft, Axles, Chuck and Crank.

BUFFALO.

AUTOMATIC THREE FEED; Drills Holes up to 1¼ in., and to Center of 16 in. Circle; Chuck fitted for Drills with ½ in. Straight Shank; Diameter Shaft 1 in.; Diameter of Chuck 1⅝ in.; Diameter of Table 8 in.; Diameter of Feed Wheel 5½ in.; Diameter of Drive Wheel 7 in., Diameter of Fly Wheel 14 in. Length of Crank 13 in.; Cast Iron Upright 37 in. Long, 4⅛ in. Wide, 1⅛ in. Thick. Height over all 40 in.

Each

No. 60—Weight each about 100 lbs.....$19 00

One in a Crate

BUFFALO

These Drills are Strong, Simple and of Rigid and Durable Design, careful attention being given to Distribution of Metal along lines of Greatest Strain. They have Painted Cast Iron Frames, Gearing, Feed, Fly Wheels and Table; Steel Shafts, Axles, Chucks and Cranks.

The Feed has a 3¼ in. Run, and will Drill Holes up to 1 in., to Center of a 15 in. Circle; Chuck fitted for Drills with ⅜ in. Straight Shank; Diameter of Shaft 1⅛ in.; Diameter of Chuck 1⅝ in.; 7½ in. Square Table; Diameter of Feed Wheel 5 in.; Diameter of Drive Wheel 6 in.; Diameter of Fly Wheel 13½ in.; Length of Crank 13 in., Bolted to a Natural Finish Hardwood Upright 38 in. Long, 5¼ in. Wide, 1⅜ in. Thick; Height over all 47 in.

Each

No. 155—BALL BEARING, WITH DOUBLE GEARED SELF-FEED; Weight each about 94 lbs. ... $14.00

The Feed has a 3 in Run and will Drill Holes up to 1 in., to Center of a 12 in. Circle; Chuck fitted for Drills with ½ in. Straight Shank; Diameter of Shaft 1¼ in.; Diameter of Chuck 1⅝ in.; Round Table 7 in. in Diameter; Diameter of Feed Wheel 5 in.; Diameter of Drive Wheel 6 in.; Diameter of Fly Wheel 12½ in.; Length of Crank 13 in., Bolted to a Natural Finish Hardwood Upright 33 in. Long, 4½ in. Wide and 1⅜ in. Thick; Height over all 36 in.

No. 151—BALL BEARING, WITH DOUBLE GEARED SELF-FEED; Weight each about 65 lbs.....$13.00

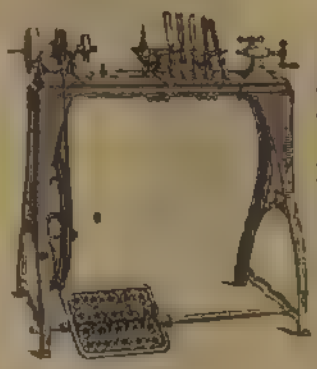
The Feed has a 3½ in run, and will Drill Holes up to ¾ in., to Center of a 12 in. Circle; Chuck fitted for Drills with ½ in. Straight Shank; Diameter of Shaft 1¼ in.; Diameter of Chuck 1⅝ in.; Round Table 7 in. in Diameter; Diameter of Feed Wheel 6 in.; Diameter of Drive Wheel 6 in.; Length of Crank 12½ in.; Bolted to a Natural Finish Hardwood Upright 33 in. Long, 4½ in. Wide and 1⅜ in. Thick; Height over all 35½ in.

No. 149—HAND FEED; WITHOUT FLY WHEEL; Weight each about 62 lbs.....$9.50

One in a Crate.

LATHES.

GOODELL'S.



Drab Painted Cast Iron Frame, Drive Wheel Treadle, Slide Rests and Heads, Cast Steel Led. Steel Axles and Shafts. Complete with 5 Turning Tools; The Drive Wheel has Two Grooves of Different Depths on its Face to give a Change of Speed; The Lathe Head has a 2 in. Face Plate, Spur Center, Screw Center and Drill Chuck to hold Twist Drills up to ⅜ in. in Diameter; On the outer side of the Pulley is fitted an Emery Wheel 4½ in. in Diameter by ⅜ in. Thick, and a Drill Spindle to hold Small Drill Points for Wood Boring; The Tail Stock has a Screw Feed Center which is secured at any point by a Clamp.

Each

No. 1—GOODELL'S; Swing of Lathe 6 in.; Length of Bed 24 in.; Distance between Centers 13½ in.; Height over all 24 in.; Diameter of Drive Wheel 13½ in.; Round Leather Belt ⅝ in. Thick; Weight each about 56 lbs. $16.00

One in a Case.

SCROLL SAW ATTACHMENT.

No. 3—Scroll Saws; To fit No. 1 Goodell's Lathe; Drab Painted Cast Iron Frame; Polished Hardwood Arms; Attached to Lathe with one Heavy Bolt and Nut; Length over all 21 in.; Weight each about 10 lbs. Each $2.70

One in a Case.

CIRCULAR SAW ATTACHMENT.

No. 3—Circular Saw; To fit No. 1 Goodell's Lathe; Consisting of a Saw Table 6x7 in.; One Circular Saw 3 in. in Diameter, and a Saw Arbor; Weight each about 1 lb. Each $1.70

Packed Loose.

‡LATHES.

BARNES', with Velocipede Foot Power.

‡No. 55—VELOCIPEDE (Factory No. 31), Painted Iron Frame, Gear and Pulleys; Iron Bed, 3 Centers (1 is Spur), 2 Tee. Rests and Sockets, and 1 Turned Face Plate; Height over all 48 in.; Floor Space required 24x50 in.; Distance between Centers 36 in.....Each, $44 00

Weight Each about 220 lbs. Boxed for Shipment, about 320 lbs.

No. 55 Lathe is designed for Wood Turning; Will take in Stuff 12 in. in Diameter and 3 ft. Long; Speed can be varied from 1,000 to 2,000 Revolutions per minute; Rest can be moved readily along to any part of the Bed that the work requires; The Lathe is made entirely of Iron and Steel, except the Bed, which is Wood; Centers are accurately fitted to Taper Holes; No Wrench is required to adjust the Tail Stocks or Tool Rests and Sockets, Hand Wheels being used instead

We want to handle your MAIL ORDERS in just the way you want them handled. We give you the same low prices on MAIL ORDERS as made by our salesmen.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

LATHES.

‡No. 93—VELOCIPEDE (Factory No. 4); Painted Iron Frame, Gear and Pulleys; Including 2 Turned Face Plate, 2 Pointed and 1 Spur Centers; Hand Rest, Wrenches and Belting; Height over all 44 in., Floor Space required 24x24 in.; Distance between Centers 20 in. ..... Each, $50 00 (Sale $45.00)

Weight Each about 210 lbs.
Boxed for Shipment about 250 lbs.

No. 93 Lathe is designed for Turning both Wood and Iron, and for Boring, Drilling, Polishing, etc. It is a desirable size for small work; IT SWINGS 7 IN. AND TAKES 20 IN. BETWEEN CENTERS; The Speed can be varied from 1,000 to 2,000 Revolutions per minute, and the motion can be Started, Stopped or Reversed instantly; This Lathe is made entirely of Iron and Steel; The Bed is solid and has V-shaped Projections, over which the Head and Tail Stocks, Hand and Slide Rests are fitted; The Lead Screw for the Carriage is operated by hand, by it the Carriage can be traveled 20 in., the entire Distance between Centers; The Carriage can be engaged or disengaged instantly from the Lead Screw; The Cross Feed Way on which the Tool Post moves can be set at any desired angle for Taper Turning and Boring; The Tail Stock can be moved and set at any point desired by the simple turning of the Hand Wheel; or it can be taken off entirely, thus leaving the Bed free for Face Plate or Chuck Work; The Head Stock Spindle is Hollow; Size of Hole 9/32 in.; The Lead Stock Spindle has Taper Bearings and is capable of very nice Adjustment; The Tail Stock Center is Self-Discharging.

‡No. 97—VELOCIPEDE (Factory No. 4 1/2); Painted Iron Frame, Gear and Pulleys; Height over all 46 in.; Floor Space required 24x42 in.; Distance between Centers 25 in.; Swings 9 in. ..... Each, $ 75.00

Weight Each 270 lbs.
Boxed for Shipment about 340 lbs.

No. 97 is a Back-Geared Screw Cutting Lathe; Feeds Right or Left, and Cuts Screws Right or Left without change of Gearing; The Carriage is Adjustable for Taper Boring or Ball Turning; It is thoroughly Gibbed for taking up wear.

The Tail Stock has Side Movement to Adjust Centers for Turning Tapers; The Head Stock has Hollow Spindle for Rods up to 3/8 in.; All the Gearing is Cut from Solid Metal; All Parts are made of Steel where this would best serve the purpose. It is Indexed for Threads 6 to 46 and the Change Gears Furnished can be combined for many other Threads; It Swings 4 3/8 in. over Tool Carriage.

The Small Pulley on Cone is 2 1/2 in.; the Large Pulley 6 1/2 in.; It has Three Speeds, and is suitably arranged for Heavy or Light Work in Turning or Polishing.

WHEN IT IS POSSIBLE TO DO SO, CHUCKS SHOULD BE FITTED TO LATHES BEFORE BEING SHIPPED.

BARNES' BENCH.

Drab Painted Cast Iron Heads, Slide Rests, Feet, Pulley and Hand Wheels; Steel Face Plate, Rests and Bolts Designed for Wood Turning; will take in Stuff 12 in Diameter and 3 ft. Long; Speed can be varied from 1000 to 2000 Revolutions per minute.

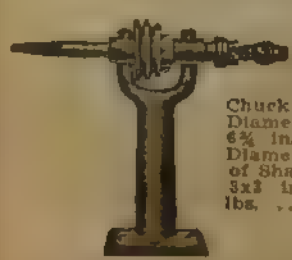
Each

‡No. 68—(Factory No. 3); Hardwood Bed 84 in. Long, 4 in Thick; Diameter of Pulley 5 in., Width of Pulley Face 1 3/4 in., Length of Slide Rests, one each 9 in. and 6 in.; Height over all 36 1/2 in.; Diameter of Face Plate 4 1/2 in.; Weight each about 75 lbs. $15 00
40 40

One in a Case

WHEN IT IS POSSIBLE TO DO SO, CHUCKS SHOULD BE FITTED TO LATHES BEFORE BEING SHIPPED.

POLISHING LATHE HEADS.



Each

No. 2—Japanned Cast Iron Base and Frame; Polished Steel Axle Pulleys, Clamp, Chuck and Taper Threaded Spindle. Diameter of Spindle 3/8 in.; Height 6 3/4 in.; Length of Spindle 2 3/4 in.; Diameter of Pulley 1 3/4 in.; Length of Shaft over all 8 in.; Size of Base 3x3 in.; Weight each about 1 1/2 lbs. $3 30

Packed Loose.

‡LATHES.

‡BARNES', with Velocipede Foot Power.

‡No. 113—VELOCIPEDE (Factory No. 5); Painted Iron Frame, Gear and Pulleys; Distance between Centers 36 in., Swings 11 in., Height over all 48 in.; Floor Space 24x64 in.; Weight each about 385 lbs.; Boxed for Shipment about 530 lbs. $100 00 (Sale $90.00)

‡No. 115—VELOCIPEDE (Factory No. 5); Painted Iron Frame, Gear and Pulleys; Distance between Centers 48 in., Swings 11 in.; Height over all 48 in.; Floor Space required 24x64 in.; Weight Each about 420 lbs.; Boxed for Shipment about 630 lbs. $125.00 (Sale $110.00)

‡No. 129—Fixtures to raise the Head and Tail Stocks, and Tool to bore out and swing 17 in. in diameter.... $10 00 $17.10
‡No 131—Hand Rest, with Sockets for Hand Turning 3 00 5.20
‡No 133—Countershaft only for above..... 16.00 25.70

Swings 8 3/4 in. over the Tool Carriage; With its Back-Gearing and Cone Pulleys the Lathe has a Great Range of Speed.

The Head Stock has a Steel Spindle with 15/32 in. Hole through its Entire Length; The Boxes are accurately fitted to the Spindle, with provision to keep them true and to take up Wear; The Tail Stock can be readily set at any desired point, or taken altogether from the Lathe Bed, thus leaving it free for Face Plate or Chuck Work. It can also be set over for Turning Tapers; The Spindles of Both Head and Tail Stocks are of Steel, with positively true Taper Holes for the reception of the Centers, and the Tail Stock Center is Self-Discharging; The Tool Carriage is Gibbed to the Bed; Not made with Automatic Cross Feed; On a Small Lathe, less than 15 or 16 in. Swing, Automatic Cross Feed is of no particular advantage. The Tool Carriage Swivels so that the Tool can be set to work at any desired angle and it also adapts the Lathe for Taper Boring; These Features are of Greater Value than Automatic Cross Feed; All the Works are securely protected from chips and dirt, thus insuring long wear and durability to the most costly and vital parts of the Lathe; It is Indexed for Threads 4 to 40, and the Change Gears furnished can be combined for many other Threads; As a Right or Left Screw Cutting Lathe it is perfect; all the Gearing is Cut from Solid Metal in the Best Machinery known for Gear Cutting, and is as True and Noiseless as it is possible for Metal Gearing to be.

Bed—Extra Length. The Dimensions of No. 113 Velocipede Lathe are in true proportion; Gunsmiths and others often require a Greater Length of Bed, and do not care for Proportionate Strength in other parts. For such we can furnish a Bed that will admit of 40 in. between Centers. See No. 115.

‡BARNES', with Velocipede Foot Power.

(Factory No. 5 1/2); Painted Iron Frame, Gear and Pulleys; Swing on Face Plate 13 in.; Swing over Carriage 8 in.

No.	‡137
Length of Bed, ft....	6
Dist. bet. Centers, in.	45
Height over all, in.	46
Floor Space Req., in.	24x72
Wgt. Lathe abt., lbs.	690
Wgt Boxed abt., lbs.	850
Each	$145 00
	248.00

No	‡139	‡141
Length of Bed, ft....	7	8
Distance between Centers, in..	57	69
Height over all, in.....	46	46
Floor Space Required, in....	24x84	24x96
Weight of Lathe about, lbs.....	740	790
Weight Boxed about, lbs.....	893	953
	$155 00	165 00
	265.00	282.20

‡No 135—Countershaft only, for Lathes Nos. 137 to 141..$20.00 34.20
‡No 135—Hand Rest, with sockets for Hand Turning... 3.50 6.00

Nos. 137 to 141 Lathes are designed to do as large work as it is practical to do by foot power; They are Strong, Substantial Lathes for a job or manufacturing shop where the demand on a Lathe is from the Smallest to the Largest Work.

Patent Twin Screw Feed and Screw Cutting Combination, which makes Change of Feed in the Tool Carriage instead of in the Head Stock; This greatly simplifies and reduces the number of parts commonly used for these purposes.

The Tail Stock has Side Movement to Adjust Centers for Turning Tapers, The Head Stock has Hollow Spindle for Rods up to ½ in.; All the Gearing is Cut from Solid Metal; They are Indexed for Threads 4 to 36, and the Change Gears furnished can be combined for many other Threads.

WHEN IT IS POSSIBLE TO DO SO, CHUCKS SHOULD BE FITTED TO THE LATHES BEFORE BEING SHIPPED

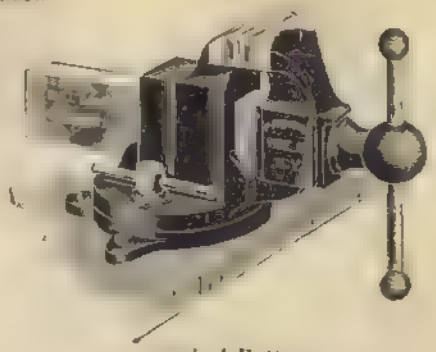
‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

VISES

BULL DOG MACHINISTS'

Stationary Bottom
Steel Faced Solid Jaws

Nos.	52	53	54
Jaws, Inches	4⅜	4⅝	5
Jaws Open, Inches	6	7	8
Weight Each, Lbs.	42	52	72
Each	$11.00	13.00	16.00

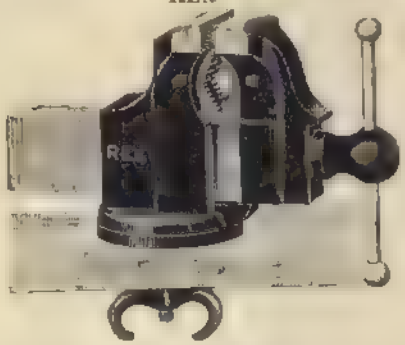


Swivel Bottom
Steel Faced Solid Jaws

No.	93
Jaws, Inches	4⅝
Jaws Open, Inches	7
Weight Each, Lbs.	64
Each	$16.80

COMBINATION PIPE VISES

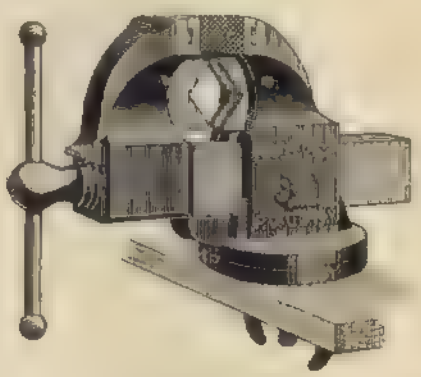
REX



Swivel Bottom
Steel Faced Jaws, Tempered Steel Pipe Jaws

Nos.	701	702
Jaws, Inches	3½	4¼
Holds Pipe, Inches	⅛ to 2	⅛ to 3
Weight Each, Lbs.	40	57
Each	$10.00	12.00

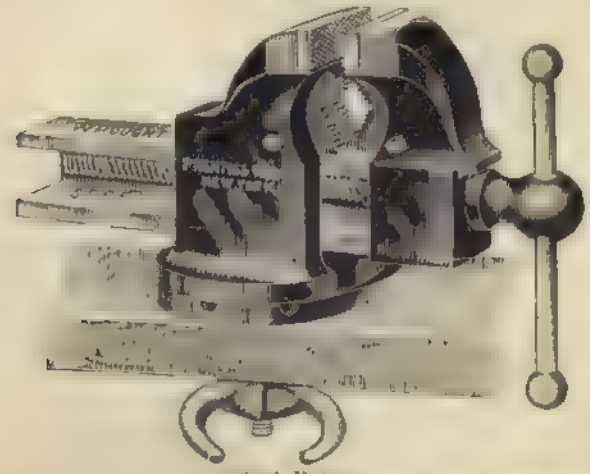
MONARCH



Swivel Bottom
Steel Faced Jaws, Reversible Pipe Jaws, Cut and Milled from Best Quality Steel

Nos.	401	402	403
Jaws, Inches	3½	4½	5
Holds Pipe, Inches	⅛ to 2½	⅛ to 3	⅛ to 4
Weight Each, Lbs.	44	65	110
Each	$11 50	15.00	20 00

NEW BLAKE

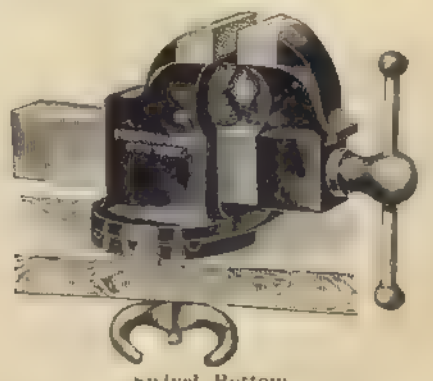


Swivel Bottom
Steel Faced Jaws, Wrought Steel Slide Bar, Reversible Pipe Jaws, Cut and Milled from Best Quality Steel, Extra Heavy, Finest Finish

	Each
No. 183 6 in. Jaws, Holds Pipe ⅛ to 3 in.	$32.00

Weight Each 185 Pounds

NEW BLAKE



Swivel Bottom
Steel Faced Jaws, Reversible Pipe Jaws, Cut and Milled from Best Quality Steel, Heavy, Finest Finish

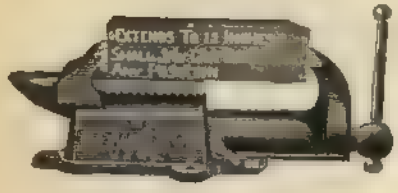
	Each
No. 182½ 5 in. Jaws, Holds Pipe ⅛ to 4 in.	$25 00

Weight Each 120 Pounds

COMBINATION VISES AND ANVILS

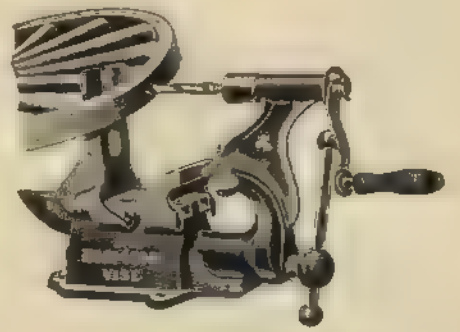
ADAMS' DIAMOND

For Small Work



Adjustable for Large Work

As a Pipe Vise



With Drill Attachment

Diamond Vise—4 in. Steel Faced Jaws, Open 12 in., Green Painted Cast Iron Body, 3x7 in. Hardened and Polished Iron Anvil Face, ¾x10½ in. Steel Screw, Small Jaw can be Quickly Set at Any Position, Holds 2 in. Pipe ..... Each $7 00

Weight Each 42 Pounds
One in a Box

DIAMOND DRILL ATTACHMENTS

Diamond Drill Attachment Cast Iron, Painted Green, Polished Head, Takes Square Shank Bit Stock Drills up to ⅝ in. ..... Each $3.00

Weight Each 15 Pounds
One in a Box

BLACKSMITHS' VISES

SOLID BOX

BOXES AND SCREWS

FOR SOLID BOX BLACKSMITH VISES

Boxes and Screws

Fitted with Patent Concave and Convex Washers

Nos.	1	1½	2	3	4
For Vises, Nos.	40	50	60&70	80&90	100
Diameter of Screw, Inches	1	1⅛	1¼	1⅜	1¾
Diameter of Box, Inches	1½	1⅝	1¾	1⅞	2⅜
Weight Each, Lbs.	9	13	15	17	20
Each	$3.50	4.00	4.00	4.50	7.00
	6.00	7.00	8.00	9.50	9.50

Solid Box Blacksmith Vises

Wrought Steel, Jaws Forged from One Piece, Faced with Tool Steel

Nos.	40	50	60	70	80	90	100
Weight Each, Lbs.	40	50	60	70	80	90	100
Length of Jaws, Inches	4	4½	5	5¼	5½	5¾	6
Depth from Top of Jaw to Top of Box, In.	3½	4¼	4½	4¾	5	5¼	5½
Opens, Inches	4	4½	5	5¼	5½	5¾	6
Each	$10 50	11.50	13.00	15.00	17.50	20.00	22.00
	9.00	10 50	12 00	14.00	16.00	18.00	20.00

BADGES OF ANY DESCRIPTION MADE TO ORDER

Made of German Silver. Black Enameled Letters.
Illustrations Exact Sizes.
PRICE EACH

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German Silver

No. 4672.
Embossed Aluminum, Made only in Quantities. Prices on application

No. 4673, $3.00
German Silver

No. 4674, $3.00
German Silver
Star Pierced Out.

No. 4675, $4.00
German Silver.

No. 4676, $3.00
German Silver.

No. 4677, $5.00
German Silver
Gold or Silver Plated

No. 4678, $1.75
German Silver Hat Badge
Can furnish with any railroad initial

No. 4679, $3.00
German Silver.
No. 4680, $5.00
Gold Plated.

No. 4681, $1.75
German Silver

No. 4682, German Silver, $2.50
No. 4683, Silver Plated, . 3.50
No. 4684, Gold Plated, . . 4.50

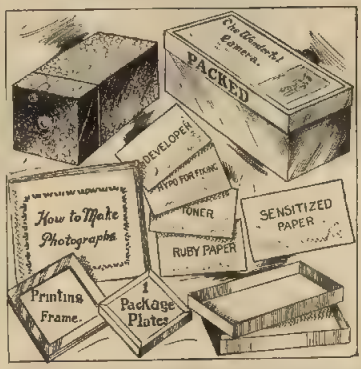
No. 4685, German Silver $1.00
No. 4686, Enameled . . . 1.50
No. 4687, Silver Plated 2.00
No. 4688, Gold Plated, . 3.00

No. 4689, German Silver, $1.25

No. 4690, German Silver, $2.50
No. 4691, Silver Plated, .. 3.50
No. 4692, Gold Plated, ... 4.50

The "Wonderful" Cameras

A Most Excellent Line for Premium Givers, Specialty Dealers and Mail Order Propositions



No. 01. Wonderful Camera, time exposure, takes a picture 2x2 in. This is a neatly constructed camera, black leatherette cover, seal grain, looks just like leather. It is considered the best of the low priced cameras offered anywhere because it will take clearer and better defined pictures than other cameras of similar price. Fitted with genuine camera lenses simple in construction, and therefore easy to operate. Directions and a complete developing outfit with each camera, and so priced. Each..... .26
Price in lots of 100, each..... .24

No. 02. Ideal Camera, time exposure takes picture 2½x2½ in. It is practically the same style in construction and appearance as well as fittings as the Wonderful listed above, except that it takes larger pictures. This makes really an ideal item for the premium goods dealer. Complete with instructions and a whole developing outfit. Each..... .30
Price in lots of 100, each..... .28

No. 03. Junior Snap Shot, will take pictures 2½x2½ inches in size, clear and sharp to the corners of the plate. Covered with morroccoette and presents an attractive appearance and also can be carried conveniently in the outside coat pocket, making it a very handy article to take with you on excursions, and vacation trips. It has a device by which you can take instantaneous pictures in 1-10 to 1-25 of a second, simply by lessening the tension. The lenses used are especially made for this camera. We furnish instruction books free and everything necessary to take, develop and finish a photograph. Price, complete, with outfit ..... .40

No. 04. Reliable Time Exposure. Takes a picture 2½x3½ in. in size. Complete developing and printing outfit accompanies each Farmer Camera. Landscapes as well as interior and bust pictures can be taken. Price, complete, with outfit..... .60

No. 05. Professional Snap Shot, 3½x3½ in in size, same style as above, but larger. We can recommend this camera. It is a good camera at a low price. Developing and printing outfit, also instructions accompany every outfit. Price, complete..... .85

The developing outfit consists of a box of dry plates, and sensitive paper, developing and toning chemical and fixative.

Buster Brown Cameras

These are the Best Low Priced Cameras in the Market

Will Produce Better Work than Any Similar Cameras Made

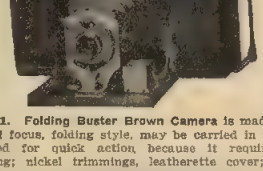
No. 2. Buster Brown Camera is especially suited for those who have some photographic knowledge and wish to improve it or perfect it. This camera is essentially for snap-shot photography and requires no focusing. It is a practical instrument in every respect and will produce the best work demanded within the scope of a camera of this price and size.

Size of camera 3¼x4½x5½ in. Takes pictures 2¼x3¼ in. Adapted for 6 exposure film. (4a). Fitted with best quality Meniscus fixed focus lens. Shutters enclosed within the box for both snapshot and time exposures with 3 different size openings, 2 finders, noiseless winding key, Imitation leather covered in black, nickel trimmed, handle on top.

Price, each 1.90
Price for carrying case..... .75
Films for above size, 2¼x3¼ picture, 6 exposures on roll, per roll..... .18

Buster Brown Folding Camera

Packs Conveniently in Pocket



No. 1. Folding Buster Brown Camera is made with a fixed focus, folding style, may be carried in pocket, adapted for quick action, because it requires no focusing; nickel trimmings, leatherette cover; fitted with two tripod sockets and spool holding arrangement which is entirley new in construction; quickly loaded and unloaded. Equipped with an automatic spool which holds the film taunt in winding. Size 1¾x3½x6¾ in. Takes pictures 2¼x2¼ in. Adapted for 6 exposures film (4a). Weight 15 oz. Good Meniscus Achromatic lens. Shutter is self setting, operated by finger release lever; for time, bulb and instataneous pictures.

Each..... 8.35
Leather carrying case, each..... 1.20
Films, for above, size 2¼x3¼, picture, 6 exposures on roll, per roll ..... .18

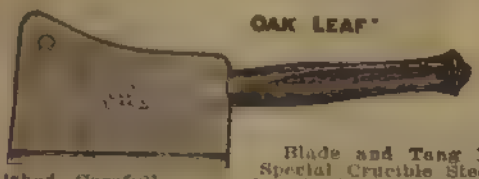
BUTCHERS' CLEAVERS.

KEEN KUTTER

Blade and Tang Forged from Highest Grade Crucible Steel, Full Polished and Etched, Carefully Ground and Sharpened; Best Hickory Handle with Flattened Sides, Extra Scored and Polished, with Heavy Steel Ferrule and Patent "Never Slip" Hook at End; Tang Bolted Clear through Handle.

KEEN KUTTER*, WITH RIDGED BLADE

Nos.	K30	K31	K32	K33
Length of Cut, Inches	7	8	9	10
Length of Handle, Inches	5½	10	11	11½
Front Width of Blade, Inches	5½	6	6⅛	6¼
Gauge of Blade	8	8	7	7
Weight per dozen about, lbs.	31	37	44	46
Per dozen	$27.00	31.00	34.00	38.00



OAK LEAF*

Blade and Tang Forged from Special Crucible Steel, Full Polished, Carefully Ground and Sharpened; Select Polished Swell End Hickory Handle with Flattened Sides and Steel Ferrule; Tang Bolted clear through Handle.

OAK LEAF*, WITH RIDGED BLADE

Nos.	K50	K51	K52	K53
Length of Cut, Inches	7	8	9	10
Length of Handle, Inches	7½	8½	9½	10½
Front Width of Blade, Inches	5½	6	6½	7
Gauge of Blade	10	10	9	8
Weight per dozen about, lbs.	27	36	40	51
Per dozen	$19.50	23.50	27.50	30.50

One half Dozen in a Wood Box

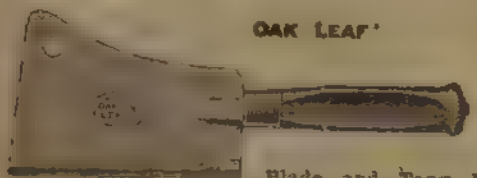
BUTCHERS' CHOPPERS.

KEEN KUTTER*

Blade and Tang Forged from Highest Grade Crucible Steel, Full Polished and Etched, Carefully Ground and Sharpened; Best Hickory Handle with Flattened Sides, Extra Scored and Polished, with Heavy Steel Ferrule and Patent "Never Slip" Hook at End; Tang Bolted clear through Handle.

KEEN KUTTER*, WITH PLAIN BLADE.

Nos.	K300	K301	K302
Length of Cut, Inches	7	8	9
Length of Handle, Inches	7½	7⅞	8
Front Width of Blade, Inches	5½	6	6⅛
Gauge of Blade	11	9	8
Weight per dozen about, lbs.	23	27	31
Per dozen	$24.00	26.00	29.00



OAK LEAF*

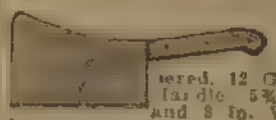
Blade and Tang Forged from Special Crucible Steel, Full Polished, Carefully Ground and Sharpened; Select Polished Swell End Hickory Handle with Flattened Sides and Steel Ferrule; Tang Bolted clear through Handle.

OAK LEAF*, WITH RIDGED BLADE

Nos.	K500	K501	K502
Length of Cut, Inches	7	8	9
Length of Handle, Inches	6½	6⅞	6⅞
Front Width of Blade, Inches	5½	6½	6½
Gauge of Blade	13	12	11
Weight per dozen about, lbs.	32	36	40
Per dozen	$16.00	18.00	22.00

One-half Dozen in a Wood Box

HOUSEHOLD CLEAVERS.



KEEN KUTTER*.

Highest Grade Crucible Steel Blade, Full Polished and Tempered, 12 Gauge in Front and 9 Gauge at Handle 5¾ In. Cut, 4 In. Wide at Front and 3 In. Wide at Handle; Tang Extends [illegible] through Handle and is Riveted with Three Steel Rivets Natural Finish Walnut Handle 5 In. Long; Length over all 11 In.

Per Dozen

No. K75—KEEN KUTTER*; Weight per doz. about 12 lbs. . $9.00

One-half Dozen in a Cardboard Box

OAK LEAF*.

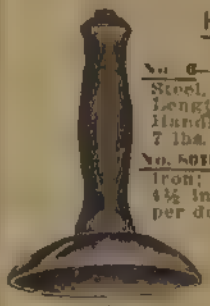
Special Crucible Steel, Forged Blades, Full Polished; Handle and Tang Riveted, Nickel Plated Ferrule; 7 In. Cut, Medium Weight, 16 Gauge Blade 2⅝ In. Wide at Front; Ebonized Hardwood Handle 6 In. Long; Length over all 12 In.

Per Dozen

No. KF—OAK LEAF*, Weight per dozen about 7 lbs. . . $5.40

One Dozen in a Cardboard Box

HOG SCRAPERS.



No. 6.

Per Dozen

No. 6—Blade Stamped from 18 Gauge Sheet Steel, Natural Finish; Diameter 4½ In., Length of Handle 4⅝ In., Diameter of Handle 1⅜ In.; Weight per dozen about 7 lbs. $4.30

No. 8011—Blade Stamped from 19 Gauge Sheet Iron; Diameter 4¼ In.; Length of Handle 4½ In.; Diameter of Handle 1⅜ In.; Weight per dozen about 5¼ lbs. 2.40

One Dozen in a Cardboard Box.

Plain Finish Hardwood Handle, secured to Blade with Bolt, which extends entirely through Handle and Blade

Blade Stamped from 20 Gauge, Tinned Sheet Iron; Diameter 4 In.; Length of Handle 4 In.; Diameter of Handle [illegible]

Per Dozen

No. 8—Weight per doz. abt 2½ lbs. . $2.00

One Dozen in a Cardboard Box.

TWO BLADES.

Plain Finish Hardwood Handle, secured to Blades with Bolt and Nut, Bolt extends entirely through Handle and Blades Blades Stamped from 20 Gauge Galvanized Sheet Steel; Diameter of Bottom Blade 3⅞ In.; Diameter of Top Blade 2⅜ In. [illegible] of Handle 4½ In.; Diameter of Handle 1¼ In.

Per Dozen

No. 10—Weight per doz. abt 4 lbs. $1.40

One-half Dozen in a Cardboard Box

BLOCK SCRAPERS.

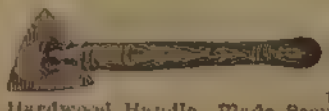
BUTCHERS' BLOCK

Tempered and Polished Tool Steel Blade, Riveted to Japanned Malleable Iron Handle; Diameter of Handle 1¾ In.; Length 6 In., Height over all 3¾ In.

Per Dozen

No. 36—Weight per dozen about 17 lbs. $12.50

One-half Dozen in a Cardboard Box.



DECK OR BLOCK.

Tempered Tool Steel Detachable Blade, with Three Cutting Edges; Natural Finish, Heavy Steel Japanned Ferrule; Polished Hardwood Handle, Made Secured to Handle with Heavy Bolt; Width of Blade 5 In. Length of Handle 16½

Per Dozen

No. 8B—Weight per dozen about 30 lbs. $12.00

Packed Loose.

EXTRA PARTS FOR *KEEN KUTTER** MEAT AND FOOD CHOPPERS.

For Cutters, Nos.	KK10	KK11	KK12	KK13
No. K1—Body; Cast Iron, Tinned, Each.	$0.90	$1.20	$1.20	$1.80
No. K2—Feed Screw; Cast Iron Tinned, Each.	.42	.60	.60	.72
No. K3—Steel Fine Cutting Plate, with 1/8 in. Perforations, Each.	.24	.24	.24	.30
No. K4—Steel Medium Cutting Plate, with 9/16 in. Perforations, Each.	.24	.24	.24	.30
No. K4½—Steel Coarse Cutting Plate, with 1½ in. Perforations, Each.	.24	.24	.24	.30
No. K5—Crank; Cast Iron, Tinned, with Hardwood Handle, Each.	.30	.30	.30	.36
No. K6—Clamp Screw, Tinned, Each.	.18	.18	.18	.24
No. K7—Front Thumb Nut, Cast Iron, Tinned, Each.	.12	.12	.12	.12
No. K8—Reversible Cutting Plates, Each.	.24	.24	.24	.30
No. K9—Thumb Screw for Crank, Each.	.03	.03	.03	.03

Stuffing Attachments cannot be used on Nos. KK10 and KK11 Choppers.

Average Weight Each on above Parts as follows: No. K1 Body about 2 lbs.; No. K2 Feed Screw 1½ lbs.; Nos. K3, K4, K4½ and K8 Cutting Plates ⅛ lb.; No. K5 Crank ¼ lb.; No. K6 Clamp Screw ⅛ lb.; No. K7 Thumb Nut ⅛ lb.; No. K9 Handle Screw and Washer 1/16 lb.

Packed Loose

INFORMATION REGARDING CUTTING PLATES.

Use No. K3 Fine Cutting Plates for Chopping all kinds of Meat, Raw or Cooked Vegetables, and all other Articles of Food which are desired rather Fine. To Cut Raw Meat the Thumb Screw should be screwed rather tight.

Use No. K4 Medium Cutting Plates for Chopping all of the above, also Bread, Crackers and other Food required in Small Pieces

Use No. K4½ Coarse Cutting Plates for Chopping Apples and all Kinds of Fresh, Soft Dried Fruits, all kinds of Fresh Vegetables, Nuts, Salt Pork, Suet, Fish, Cooked Meats and other Food not required in very Small Pieces

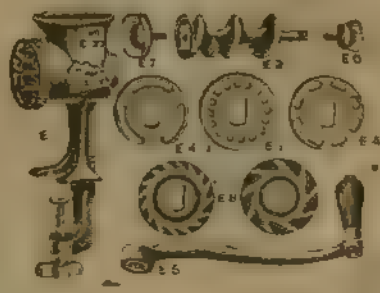
Use Fine Side of No. K8 Reversible Cutter for Pulverizing Dried Bread and Crackers, for Grating Cocoanut, Horse Radish or any Food required in Small Pieces.

Use Extra Fine Side of No. K8 Reversible Cutter for Grinding Nuts, etc., for Nut Butter or anything required Extremely Fine.

In putting Choppers together the Shoulder at end of Worm should always enter Slot in Center of Cutting Plate.

A Little Dry Bread or Crackers ground through the Machine when through using will clean it very thoroughly; Rinse with Hot Water before putting Chopper away.

EXTRA PARTS FOR OAK LEAF* FOOD CHOPPERS.



For Cutters Nos.	E10	E20	E30
‡No. E1—Body; Cast Iron, Tinned, Each.	$1.00	$1.00	$1.50
‡No. E2—Feed Screw; Cast Iron, Tinned, Each.	.56	.56	.70
No. E3—Steel Fine Cutting Plate, with ⅛ in. Perforations, Each.	.30	.30	.30
No. E4—Steel Medium Cutting Plate, with 9/16 in. Perforations, Each.	.30	.30	.30
No. E4½—Steel Coarse Cutting Plate, with 1½ in. Perforations, Each.	.30	.30	.30
No. E5—Crank; Cast Iron, Tinned, with Hardwood Handle; Bronze Bushed, Each.	.30	.30	.36
‡No. E6—Clamp Screw; Tinned, Each.	.24	.24	.30
No. E7—Front Thumb Screw, Cast Iron, Tinned, Each.	.16	.16	.16
No. E8—Reversible Pulverizer or Nut Butter Grinder, Each.	.42	.42	.50
No. E9—Rear or Crank Thumb Nut, Each.	.16	.16	.16

Packed Loose.

EXTRA PARTS FOR UNIVERSAL MEAT AND FOOD CHOPPERS.

For Cutters Nos.	10	11	12	13
‡No. 1—Body; Cast Iron, Tinned, Each.	$0.75 .90	$1.00 1.20	$1.00 1.20	$1.50 1.80
‡No. 2—Feed Screw, Cast Iron Tinned, Each.	.36 .42	.50 .60	.50 .60	.60 .72
No. 3A—Cast Cutter, Coarse, Each.	.15 .18	.15 .18	.15 .18	.25 .30
No. 3B—Cast Cutter, Medium, Each.	.15 .18	.15 .18	.15 .18	.25 .30
No. 4—Cast Cutter, Fine, Each.	.15 .18	.15 .18	.15 .18	.25 .30
No. 5—Crank; Cast Iron, Tinned; With Hardwood Handle, Each.	.20 .24	.25 .30	.25 .30	.30 .36
‡No. 6—Clamp Screw; Tinned, Each.	.12 .16	.12 .16	.12 .16	.20 .24
No. 7—Thumb Nut; Cast Iron, Tinned, Each.	.10 .12	.10 .12	.10 .12	.10 .12
No. 8—Nut Butter Grinder or Pulverizer, Each.	. .	.20 .24	.20 .24	. .
No. 9—Stuffing Attachment; Spun Brass, Nickel Plated, Each.		.	.38 .46	.38 .46
No. 10—Handle Screw and Washer, Each.	.02 .04	.02 .04	.02 .04	.02 .04

Stuffing Attachment cannot be used with Nos. U0 and U1.

Packed Loose.

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

FISHING RODS.

CALCUTTA BAMBOO BAIT.

No. 140.

Brass Double Ferrules; Brass Standing Ring Guides; Tube Top; Brass Reel Bands; Brass Butt Cap.

Per Dozen

No. 130—4-PIECED GENUINE CALCUTTA BAMBOO, Assorted Lengths 12 to 15 ft.; Weight per dozen about 20 lbs. $21.00

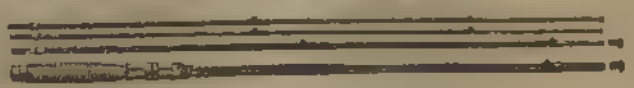
No. 140—4-PIECED GENUINE CALCUTTA BAMBOO, WITH AN EXTRA LANCEWOOD TIP JOINT; Assorted Lengths 12 to 18 ft.; Weight per dozen about 24 lbs. 27.00

WOOD BAIT

Stained Light Yellow Color; Single Brass Ferrules; One Ring Top, No Guides or Reel Bands.

No. 100—3-PIECED MAPLE, Length 10 ft.; Weight per dozen about 9 lbs ..... Per Dozen, $2.00

SPLIT BAMBOO BAIT



Nickel Plated Shouldered Double Ferrules; Nickeled Spiral Guides, Nickel Plated Reel Seat Above Hand.

3-PIECED COMMON SPLIT BAMBOO (Six Strips); One Ring Top; CORK GRIP.

Per Dozen

No. 200B—Lengths, 5½, 7, 8, 8½ and 9 ft.; Weight per dozen about 13 lbs. $13.00

No. 205B—With One Extra Tip Joint; Lengths 5½, 7, 8, 8½ and 9 ft.; Weight per dozen about 14 lbs. 18.00

One-twelfth Dozen on a Wood Form in a Cloth Bag.

All Rods on this Page are carried in Stock in Assorted Lengths only, and we Reserve the Right, when Lengths are Specified on Orders, to send the Nearest Length we have in stock.

Nickel Plated Shouldered Double Ferrules; Nickeled Spiral Guides; Nickel Plated Reel Seat Above Hand

No. 210B—4-PIECED COMMON SPLIT BAMBOO (Six Strips); One Ring Top; CORK GRIP; Length 9 ft. Weight per dozen about 12 lbs. ..... Per Dozen, $18.00

One-twelfth Dozen on a Wood Form in a Cloth Bag.

Nickel Plated Shouldered Double Ferrules; Nickeled Spiral Guides; Nickel Plated Reel Seat Above Hand

3-PIECED FAIR QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; Nickeled Tube Top; CORK GRIP; Wrapped Alternately with Red and Black Silk every 3½ to 4 in.

Per Dozen

No. 215B—Lengths 7, 8, 8½ and 9 ft.; Weight per dozen about 14 lbs. $24.00

No. 212B—Length 12 ft.; Weight per dozen about 18 lbs. 38.00

One-twelfth Dozen on a Flannel Covered Wood Form in a Cloth Bag

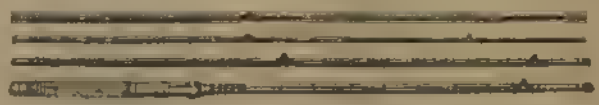
FISHING RODS.

SPLIT BAMBOO BAIT

Nickel Plated Shouldered Double Ferrules; Gem (Imitation Trumpet) Guides; Nickel Plated Reel Seat above Hand

Per Dozen

No. 220B—3-PIECED MEDIUM QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, Nickeled Tube Top; CORK GRIP; Wrapped with Maroon and Purple Silk every 1½ in.; Lengths 7, 8, 8½ and 9 feet; Weight per dozen about 14 lbs. ..$30.00



Nickel Plated Shouldered Double Ferrules; Nickeled Spiral Guides Nickel Plated Reel Seat Above Hand

3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips) WITH ONE EXTRA TIP JOINT Medium Fine, Nickeled Tube Tops; CORK GRIP; Wrapped Alternately with Red and Black Silk every 1½ to 2 in.

Per Dozen

No. 225B—Lengths 7, 8, 8½ and 9 ft.; Weight per dozen about 14 lbs. $38.00

Nickel Plated Shouldered and Welted Double Ferrules, Gem (Imitation Trumpet) Guides; Nickel Plated Tube Top; CANE WOUND GRIP; Fancy Wrapped with Red and Purple Silk every 1 to 2 in.

No. 230B—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, Lengths 7, 8, 8½ and 9 ft.; Weight per dozen about 14 lbs. ..... Per Dozen, $48.00

One-twelfth Dozen on Flannel Covered Wood Form, in a Cloth Bag.

Nickel Plated Shouldered and Welted Double Ferrules; Gem (Imitation Trumpet) Guides; Nickeled Tube Tops; Nickel Plated Reel Seat above Hand.

Per Dozen

No. 234B—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT, CORK GRIP, Wrapped Alternately with Red and Black Silk at close intervals; Lengths 8, 8½ and 9 feet; Weight per dozen about 13 lbs. $60.00

Nickel Plated Shouldered and Welted Ferrules; Gem (Imitation Trumpet) Guides, Three Ring Tops, Nickel Plated; PATENTED UNIVERSAL LOCKING REEL SEAT, making it impossible for the Reel to come off the Handle.

Per Dozen

No. 238B—3-PIECED GOOD QUALITY SPLIT BAMBOO (Six Strips), WITH ONE EXTRA TIP JOINT; CORK GRIP, Wrapped with Purple and Yellow Silk at close intervals, Lengths 8, 8½ and 9 feet; Weight per dozen about 14 lbs. $72.00

One-twelfth Dozen on an Attractive Velvet Covered Wood Form, in a Cloth Bag

FISHING RODS.

JAPANESE BAMBOO BAIT CASTING.

Nickel Plated Shouldered Double Ferrules; Nickeled Spiral Guides and Top; Nickel Plated Reel Seat above Hand; SCORED AND BLACK ENAMELED WOOD GRIP.

No. 145PC—2-PIECED PLAIN JAPANESE BAMBOO BAIT CASTING; Lengths from 4½ to 6 ft.; Weight per dozen about 5 lbs.....Per Dozen, $9.00

One-twelfth Dozen in a Paper Bag

Nickel Plated Shouldered Double Ferrules; Large Casting Guides; Large Casting Top; Nickel Plated Reel Seat above Hand; Stationary Finger Hook fastened to underside of Reel Seat; SCORED AND BLACK ENAMELED WOOD GRIP

Per Dozen

No. 153PC—2-PIECED PLAIN JAPANESE BAMBOO, KALAMAZOO PATTERN, BAIT CASTING; Lengths 4½ to 5 ft.; Weight per dozen about 6 lbs.....$12.50

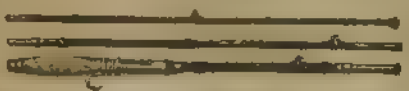
One-twelfth Dozen in a Partitioned Cloth Bag.

Nickel Plated Shouldered Double Ferrules, Large Spiral Casting Guides and Top; Nickel Plated Reel Seat above Hand; CORK GRIP, Finger Hook on Reel Band

Per Dozen

No. 165PC—3-PIECED PLAIN JAPANESE BAMBOO BAIT CASTING, KALAMAZOO PATTERN; Lengths 4½ to 6 ft.; Weight per dozen about 6 lbs.....$15.00

One-twelfth Dozen in a Paper Bag.



Nickel Plated Shouldered and Welted Double Ferrules; Large German Silver Two Ring Casting Guides; Large Casting Top; Nickel Plated Reel Seat above Hand; Finger Hook on Reel Band; CORK GRIP

No. 157MC—3-PIECED FANCY MOTTLED JAPANESE BAMBOO BAIT CASTING, KALAMAZOO PATTERN, Lengths 4½ to 5 ft.; Weight per dozen about 5 lbs.....Per Dozen, $18.00

SPLIT BAMBOO BAIT CASTING

Nickel Plated Shouldered Double Ferrules Nickel Plated Reel Seat above Hand, Finger Hook on Reel Band

Large One Ring Casting Guides; Offset Casting Top; Wrapped with Red and Green Silk every 4 to 5 in.; CORK GRIP.

No. 206BC—3-PIECED (Six Strips), Lengths 4½ to 5 ft., Weight per dozen about 6 lbs .....Per Dozen, $13.00

Nickel Plated Large Two Ring Casting Guides; Offset Casting Top; Wrapped with Red Silk every 1½ to 2 in.

Per Dozen

No. 207BC—3-PIECED; Butt Joint is Lancewood, with Maple Grip; Tip Joint is Six Strips Split Bamboo; Lengths 4½ to 6 ft.; Weight per dozen about 6 lbs.$18.00

One-twelfth Dozen in a Partitioned Cloth Bag.

FISHING RODS.

SPLIT BAMBOO BAIT CASTING

Large German Silver Two Ring Casting Guides; Offset Casting Top; Wrapped with Red and Green Silk every 2½ to 3 in.

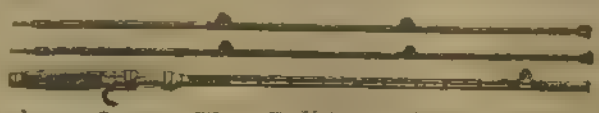
Per Dozen

No. 214BC—3-PIECED (Six Strips), KALAMAZOO PATTERN, WITH ONE EXTRA TIP JOINT; CORK GRIP, Lengths 4½ and 5 ft.; Weight per dozen about 6 lbs. $27.00

Large German Silver One Ring Casting Guides; Offset Casting Top; Wrapped Alternately with Red and Black Silk every 1½ to 2½ in.; Cluster Wound at Intervals

Per Dozen.

No. 213BC—3-PIECED (Six Strips), KALAMAZOO PATTERN, WITH ONE EXTRA TIP JOINT; CORK GRIP; Lengths 4½ to 5 ft.; Weight per dozen about 6 lbs.$33.00



Large German Silver Two Ring Casting Guides and Stirrup Top; Wrapped Alternately with Black and Red Silk every 1 to 1½ in

Per Dozen

No. 221BC—3-PIECED (Six Strips), KALAMAZOO PATTERN WITH ONE EXTRA TIP JOINT; CORK GRIP; Lengths 4½ to 5 ft.; Weight per dozen about 6 lbs.$40.00

Nickel Plated Shouldered Double Ferrules; Nickel Plated Reel Seat above Hand, Finger Hook on Reel Band, CORK GRIP.

Per Dozen

No. 223BC—3-PIECED (Six Strips), KALAMAZOO PATTERN, WITH ONE EXTRA TIP JOINT; Large German Silver Two Ring Casting Guides, and Large Casting Tops Handsomely Wrapped with Green Silk every 2 to 3 in. Length 5 feet only; Weight per dozen about 7 lbs. $42.00

One-twelfth Dozen in a Partitioned Cloth Bag

LANCEWOOD BAIT CASTING.

Nickel Plated Shouldered Double Ferrules; Nickel Plated Reel Seat above Hand, Finger Hook on Reel Band, SCORED AND BLACK ENAMELED WOOD GRIP.

Large Nickel Plated Spiral Casting Guides and Top, Wrapped with Red Silk at Guides.

Per Dozen

No. 37BC—3-PIECED, KALAMAZOO PATTERN.....$18.00

Large German Silver Two Ring Casting Guides, Large Casting Top; Wrapped with Green and Yellow Silk every 1 to 2 in.

No. 35BC—3-PIECED, KALAMAZOO PATTERN; NO EXTRA TIP JOINT; STAINED IN IMITATION OF GREEN HEART.....Per Dozen, $30.00

Lengths 4½ and 5 ft.; Weight per Dozen about 6 lbs.; One-twelfth Dozen in a Partitioned Cloth Bag.

‡CARBURETORS.

Mode of Brass; The Main Feature of this Carburetor is the Cage of Balls, which forms the Automatic Auxiliary Air Intake; Ball Cage is shaped somewhat like a thin Snare Drum and is constructed with Concentric Rows in both the Bottom and Top Plates; All around the outer circumference of the Bottom Plate is drilled a series of Holes or Ports of Various Diameters. Through these Holes air may rush first into the Cage itself and then into the Mixing Chamber with which the Cage connects the entire Tube.

Upon each and every one of these Concentrically Drilled Holes or Ports rests a Specially Constructed Ball Bronze Ball; These Balls are of varying Diameter and Weights, each one Carefully Sized and Weighed, as upon this depends the successful Automatic Operation of the Carburetor; When the Engine is getting its Proper Mixture through the Air Supply of the Main Air Intake these Balls lie Inactive, covering the ports in which they rest and where they are held by a Metal Ring inside the Cage.

When the main Air Intake is Inadequate the Ball Cage begins its work; First the Lightest Ball in the next largest Port lifts and more Air rushes in until just the right amount of Air to relieve the suction pressure is supplied; If this same speed or these conditions of demand are maintained, the Balls remain suspended in the Air, dropping and raising slightly with the pulsations of the motor; then as less Air is required the law of gravity restores the Balls to the Ports in the bottom of the Cage and the Main Air Intake again supplies the Air.

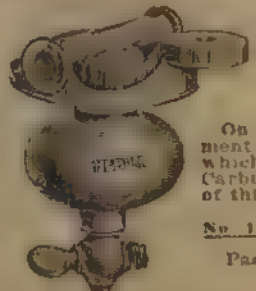
Through proper Water-Jacketing of the Carburetor, the formation of Carbon in the Combustion Chamber is prevented, thereby assuring Maximum Power, the greatest Thermal Efficiency and continued running without trouble from Carbon Deposits

Sold with a Positive Guarantee to give Satisfaction in every detail

	Each
‡No. GA1—1 in. Weight each about 6 lbs.	$35.76
‡No. GA1¼—1¼ in., Weight each about 7 lbs.	
‡No. GA1⅛—1 7/16 in.; Weight each about 7½ lbs.	
‡No. GA1½—1 9/16 in.; Weight each about 8½ lbs.	52.50
‡No. GA1¾—1 13/16 in.; Weight each about 9 lbs.	60.00
‡No. GA2—2 in.; Weight each about 11½ lbs.	
‡No. GA2½—2½ in.; Weight each about 14½ lbs.	82.50
‡No. GA2¾—2¾ in., Weight each about 16 lbs.	97.50
‡No. GA3—3 in.; Weight each about 17 lbs.	112.50
‡No. GA3½—3½ in.; Weight each about 19 lbs.	127.50
‡No. GA4—4 in., Weight each about 21 lbs.	

INSTRUCTIONS FOR ORDERING.

Give the Bore, Stroke and Number of Cylinders of the Engine, state whether it is a Two or Four Cycle, the Name of the Motor and also the Model, if possible; if there are any peculiarities about the action of the Motor, it is also well to mention them.



GASOLINE STRAINERS.

SCHEBLER.

On account of large amount of Sediment and Water in all Gasoline, and which causes most of the so-called Carburetor trouble, we advise the use of this Strainer on all Carburetors.

	Each
No. 1104—⅛ in. Pipe.	$5.00

Packed Loose; Weight Each about 12 oz.

SATISFACTION.

We buy more goods than any other Hardware concern in the world.

We carry a larger assortment than any other Hardware concern in the world.

We sell more goods than any other Hardware concern in the world

We have more customers than any other Hardware concern in the world.

WHY?

Lowest Prices.

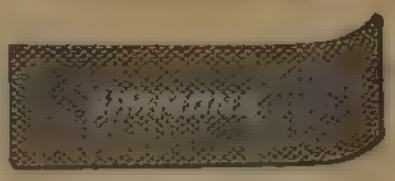
Good Service.

Complete satisfaction of the old-fashioned kind.

We appreciate your business more than any house in the world.

SEND US YOUR MAIL ORDERS.

BRAKE LINING.



SIMMONS.

All Automobiles are equipped with a Brake Drum and Band. It is commonly thought that these two surfaces come together. This, however is not the case. Between them is a Brake Lining. "SIMMONS" LINING" is made of the Best Materials obtainable for the purpose, Asbestos, an Indestructible Fireproof Mineral, reinforced with Brass Wires, interwoven in each strand.

Asbestos has been proven to give the best and surest grip of any material used for Lining. It is in no way weakened by water, grease or gasoline and is equally effective for either the external contracting or the internal expanding Brakes on either rear wheels or transmission.

TO APPLY:—Use Lining of proper width and length to completely cover friction surface of shoe, in case of Internal Expanding Brake, or Band, or in case of external contracting Brake. Punch Lining with Countersink Punch, placing holes about 1½ in. apart. Fasten Lining on with Brass or Copper Rivets, making sure that heads are well below the surface of Lining

When applying the Lining in either system, see that pedal or lever is in off position. Then in case of external contracting system, adjust Bands so they just clear the drum. In the case of internal expanding, adjust Brake Rod until Lining on Shoe just clears the Drum.

Lining is also recommended for use on Foot Brakes and Gear Transmissions

Number	Width	Thickness, in	Wgt. per ft. about, ozs.	Per Foot
SBL1	½	⅛		$0.32
SBL2	1	⅛	1¾	.40
SBL3	1¼	⅛	2¼	.48
SBL4		⅛	3	.56
SBL5		⅛	3⅛	.64
SBL6	1½	⅛	4	.72
SBL7		⅛	4⅝	.80
SBL8		¼	5	.88
SBL9		⅛	5⅝	.96
SBL10	1¾	⅛	5½	1.04
SBL11	2	⅛	6	1.12
SBL12	2	3/16	3	.36
SBL13	1¼	3/16	3¼	.44
SBL14		3/16	3½	.52
SBL15	1½	3/16	3¾	.60
SBL16		3/16	4	.68
SBL17	1¾	3/16	4¼	.76
SBL18		3/16	4½	.84
SBL19		3/16	4¾	.92
SBL20		¼	5	1.00
SBL21	1¾	¼	5½	1.16
SBL22	2	¼	6	1.32
SBL23	1	5/16	4	.60
SBL24	1¼	5/16	5	.75
SBL25	1½	5/16	6	.90
SBL26	1¾	5/16	7	1.05
SBL27	2	5/16	8	1.20
SBL28	2¼	5/16	9	1.35
SBL29	2½	5/16	10	1.50
SBL30	2¾	5/16	11	1.65
SBL31	3	5/16	12	1.80
SBL32	3½	5/16	14	2.10
SBL33	4	5/16	16	2.40
SBL34	1	⅜	4¼	.76
SBL35	1¼	⅜	5¼	.94
SBL36	1½	⅜	6⅜	1.12
SBL37	1¾	⅜	7½	1.30
SBL38	2	⅜	8½	1.48
SBL39	2¼	⅜	9½	1.66
SBL40	2½	⅜	10½	1.84
SBL41	2¾	⅜	11½	2.02
SBL42	3	⅜	12½	2.20
SBL43	3½	⅜	14½	2.56
SBL44	4	⅜	16½	2.92

Packed Loose; Put Up in 50 Foot Rolls.
Cut to Any Length Desired.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

AUTOMOBILE BUMPERS.

ROCHESTER

Brackets fasten to Springs or Hangers of the Auto with a Special Clamp which does away with the large, unsightly Bolts and Nuts and eliminates the boring of holes in the Springs or Hangers. This Clamp Butts against the Forepart of the Springs; Fender passes through Loop in the Forward Extensions and is held securely by Hexagon Nuts; Forward Extensions are in Contact with Very Stiff Coil Spring situated in the Bracket, to Absorb the Shock of Collision; Forward Extension, which Clamps the Protector Bar, is Adjustable as to Height and Width.

Each

No. RA—Fender Heavy Seamless Steel Tubing Black Enameled, with Polished Brass Caps and Forward Extensions $14.00

‡No. RAC—*Protector Bar Heavy Steel Angle Iron, Black Enameled Finish; Brass Forward Extensions* 17.00

Wrapped in Burlap; Weight Each about 15 lbs.

WILL FIT THE FOLLOWING CARS:

Abbott Detroit.	Oakland	Fiat.
Buick.	Pope Hartford.	Garford.
Cadillac.	Paige	Great Eagle.
Chalmers.	Petrol.	Hudson
Cole.	Rambler.	Imperial
Colby.	R. C. H.	Locomobile.
Columbus Electric.	Selden.	Moon.
De Tamble.	Stutz.	Mercer.
Detroit Electric.	Schacht.	Mitchell
Elmore.	Speedwell.	Ne[illegible]
Flanders.	Stafford	Owen
Firestone Electric	Stoddard Dayton.	Packard.
Fal Car	Stevens Duryea.	Patterson.
Hupp.	Thomas.	Premier.
Hupp Yeats Electric.	Van.	Pathfinder.
Haynes.	White.	Palm Singer.
Kline.	Auburn.	Peerless.
Krit.	Alco.	Regal. (not underslung).
King.	Amplex.	
Knox.	Baker Electric.	Reo.
Lion.	Cunningham.	Rainier.
Maxwell.	Cutting.	Renault.
Moline.	Chadwick.	Sampson.
McFarlin.	Corbin.	Simplex.
Marmon.	Case.	Stearns.
National.	Davis.	Velie.
Olds.	Ewing.	Warren Detroit.
Overland.	E. M. F.	Welch.
Ohio Electric.	Everitt.	

SIMPLEX.

Bracket butts against Forepart of Spring with a Special Clamp, which eliminates the boring of holes in the Springs or Hangers; Fender passes through Loop held on by Hexagon Nuts. Bumper Adjustable in Width only.

Each

No. SS—Fender Heavy Seamless Steel Tubing; Fender and Brackets Black Enameled, with Brass Caps and Forward Extensions $14.00

‡No. SSC—*Protector Bar Heavy Steel Angle Iron; Protector Bar and Brackets Black Enameled Finish; Brass Forward Extensions* .. 17.00

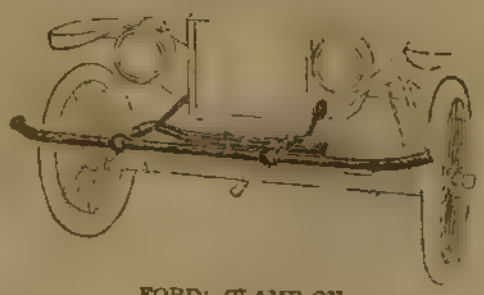
Packed Loose; Weight Each about 7½ lbs.

DESIGNED FOR CADILLAC CARS. WILL ALSO FIT THE FOLLOWING CARS:

Abbott Detroit.	Haynes.	Pope Hartford.
Buick.	Kline.	Paige
Cadillac	Krit.	Petrol.
Chalmers.	King.	Rambler.
Cole	Knox.	R. C. H.
Colby	Lion.	Selden.
Columbus Electric.	Maxwell.	Stutz.
De Tamble	Moline.	Schacht.
Detroit Electric.	McFarlin.	Speedwell.
Elmore	Marmon.	Stafford.
Flanders.	National.	Stoddard Dayton.
Firestone Electric.	Olds	Stevens Duryea.
Fal Car.	Overland.	Thomas.
Hupp.	Ohio Electric.	Van.
Hupp Yeats Electric.	Oakland.	White.

‡*Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

AUTOMOBILE BUMPERS.



FORD; CLAMP-ON.

So Constructed that no Drilling of Holes is Necessary to Fit it to the Car. The Frame is made of Wrought Iron, shaped to Conform Perfectly to the Shape of the Hanger under the Engine and is made Secure by the use of Two U-shaped Clamps. Can be Attached to a Car in a Few Minute's Time. The Extentions that Support the Protection Bar are fitted with Springs to Absorb the Shock. All Parts are Heavily Enameled except the Protection Bar which is Brass Highly Polished.

Each

No. FB—Weight each about 15 lbs $11.00

Packed Loose; Wrapped in Heavy Paper.

AUTOMOBILE SPRING BUMPERS.

All Brass Highly Polished. Extra Heavy Steel Tube inside of Brass Casting; Springs enclosed in Brass Cylinders. The Brass Castings that fasten to Hangers or Spring of machine butt against the forepart of Spring, the Protector Bar passes through Loop held on by Hexagon Nuts. Can be fitted to any Car with Channel Spring Supports without drilling the Channels; Can be applied with a common Wrench in a few minutes time. The Swivel allows for Horizontal Position of Coil Spring irrespective of the Curve of the Channel

Each

No. BES—SMALL, complete, 1¾ in. Rail $13.00

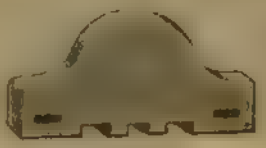
Weight Each about 15¾ lbs.

No. BEL—LARGE, complete, 2 in. Rail 23.00

Weight Each about 20 lbs.

Wrapped in Burlap

RUBBER BUMPERS.



No. 4

No. 11

No. 18.

No. 8.

No. 35.

Used between the Springs on Vehicles to Prevent them from Striking in case of a Severe Jolt. Made of High Grade Material that will not Crack, Chip or Deteriorate Rapidly.

Per Dozen

No. 4—Length 7 in.; Height 3⅝ in.; 1⅝ in. Thick; Strap Opening ¾x⅜ in.; Weight per dozen about 15 lbs. $10.00

No. 11—Length 7 in.; Height 2 in.; 1⅛ in Thick; Strap Opening ⅝x⅛ in.; Weight per dozen about 12 lbs. 8.00

No. 18—Length 3¼ in., Height 2⅜ in., 1⅛ in. Thick; Strap Opening 1⅛ in.; Weight per dozen about 8 lbs. 4.00

No. 8—Length 2½ in; Height 2 in.; 1¼ in. Thick; Strap Opening ⅝ in.; Weight per dozen about 5 lbs... 2.70

No. 35—Length 2½ in.; Height 2½ in.; 2 in. Thick. Strap Opening 1 in.; Weight per dozen about 6 lbs. 2.70

Packed Loose.

Professional Baby Doll Racks

No. 118. Baby Doll Rack. After a test of several seasons, during which we sold a great number of doll racks, we are pleased to state that from the point of construction and durability we do not think there is another doll rack quoted at as low a price that will give us much satisfaction. Besides being durable, it is also slightly, well constructed and readily put together. All the standards and crossbars are made of select lumber, bolted together and well braced. The dolls are clad in ludicrous gowns, each different, 6 on a row, 18 in all in 3 rows. The bodies are select wood hinged to the crossbars. Comical faces painted, with genuine fur hair-trimmed heads. Striped duck back with front apron slide for balls of same material. Can be so arranged that balls after dropping over the apron can be conducted into a chute or trough and will roll to the front counter. The dolls are reset by rope controlled in front. The dolls are 3½ in. thick at bottom, 16 in. high, height in back 8 ft. 4 in., front 6 ft. 6 in., width 6 ft., depth 21 in. We challenge any one to best this in quality or construction or price.

Each 20.00

This cut shows **No. 118 Doll Rack** collapsed into a small bundle, being carried away. Five days are required to fill and ship doll rack orders.

BACK VIEW.

No. 99. "Chicago Special" Doll Rack. The construction of this is the result of considerable scientific figuring. The doll must be hit in one certain spot before it will be knocked over. The illustration showing back view also shows the spot which is above the light line and the head on the wood part of the doll. If hit in that point the doll will go over; if hit anywhere else, it will not. The faces of the dolls are made of leather, 7 in. in diameter, nicely painted and stained. The dolls are clad in ludicrous gowns, each doll has a different face. The whole assemblage presents a very comical appearance. The hair is attached to the leather and also is in various colors. The body of doll is made of special web, very elastic, and allows the ball to pass on without knocking them over. Each row is equipped with lifts which reset dolls when knocked down by pulling rope at counter. This outfit is especially substantial and made purposely for a man on the road traveling around. Can be readily and easily taken down or set up in half an hour. The sides are arranged so as to make a carrying case when traveling, holding the complete equipment. It is fully guaranteed and indestructible. Size 7 ft. high, 7 ft. wide.

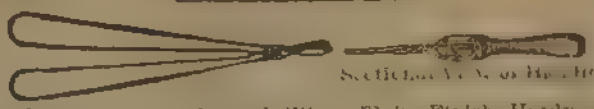
Price, Rack only, complete, each..... 32 50

Chicago Doll Rack Outfit

No. 99-3. This outfit consists of 1 Chicago Special Doll Rack and 3 dozen especially durable Balls, 1000 good Cigars, seed filler, hand shaped (50 in box) and 500 packages "Our Special" Chewing Gum. This is an exceptionally good outfit; attractive and durable and will start you in a fascinating money-making business.

Price, complete outfit..... 47 50

CARPET BEATERS.

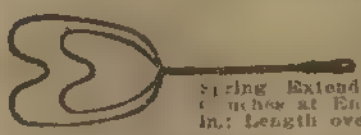


No. 10 Coppered Steel Wire; Plain Finish Hardwood Handle; Spring made of one piece of Wire and runs through Handle. Wire ends are wound around Handle to prevent Handle Splitting. Width of Spring 9 in. Length over all 34 in.

Per Dozen

No. 86—DOUBLE SPRING; Weight per dozen 9 lbs..$4.50

Packed Loose



No. 10 Coppered Steel Wire; Plain Finished Hardwood Handle; Heavy Tin Ferrule; Spring Extends through Handle and Clinches at End; Width of Spring 9¾ in.; Length over all 33 in.

Per Dozen

No. 87—DOUBLE SPRING; Weight per dozen about 8½ lbs. $2.40

No. 13 Tinned Steel Wire; Plain Finish Hardwood Handle. Spring extends through Handle and Clinches at End; Width of Spring 8 in.; Length over all 27½ in.

Per Dozen

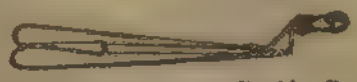
No. 13-1 DOUBLE SPRING; Weight per dozen about $2.00

No. 10 Coppered Steel Wire; Plain Finish Hardwood Handle, Spring Extends through Handle, and Clinches at End; Width of Spring 8½ in.; Length over all 31 in.

Per Dozen

No. 91—DOUBLE SPRING; Weight per doz. abt. 7 lbs..$2.00

One Dozen in a Bundle.



No. 10 Coppered Steel Wire; Double Brace Twisted Wire Bent Shank Plain Finished Hardwood Handle, with Heavy Brass Ferrule. Wire extends through Entire Length of Handle and Clinches at End; Length over all 30½ in.; Width of Spring 12¼ in.

Per Dozen

No. 82—DOUBLE SPRING; Weight per doz. abt. 9 lbs..$2.00

NOTE—The Bent Shank (or Offset) Prevents the Hand from coming in contact with the Surface of the Carpet.

One-half Dozen in a Bundle; One Gross in Burlap Wrapper.

Three No. 13 Galvanized Steel Wires; Plain Finish Hardwood Handle; Spring Soldered and Riveted in Handle. Width of Spring 8 in.; Length over all 27½ in.

Per Dozen

No. 86—BRAIDED SPRING. Weight per dozen about 9 lbs $2.50

Packed Loose.

WEAVERS' REEDS.

Made of Selected Cane Reeds; Wire Sides Corded; Hardwood End Pieces

Nos.	400 ¢	500 ¢	500 ¢
Length, Quarters	4-4	4-4	5-4
Length, In.	40	40	47
Width, In.	5	5	6
Number, Reeds	400	500	500
Weight per dozen, about, lbs	18	18	19
Per dozen	$33.00	33.00	38.00

Packed Loose

EXTENSION CURTAIN RODS.

EXTEND FROM 24 TO 44 IN

Brass Plated Rods, 5/16 in. Diameter; Wrought Brass Adjustable Brackets.

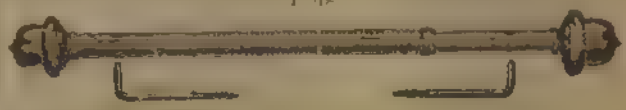
No. 2444—Weight per dozen about 4 lbs. Per Dozen, $1.00

EXTEND FROM 24 TO 44 IN.

Brass Plated Polished Rods, with Ferrule, ⅜ in. Diameter.

No. 9018—Weight per doz. about 2¼ lbs..Per Dozen, $2.40

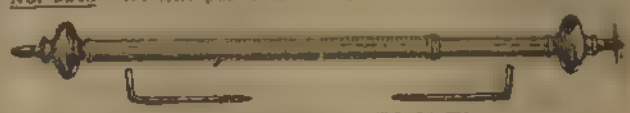
One Dozen in a Cardboard Box, Complete with Escutcheon Pins



EXTEND FROM 30 TO 54 IN

Brass Plated Polished Rods, with Ferrule, ⅛ in. Diameter; Fancy Ends 1⅛ in. in Diameter; Complete with Brass Plated Wire Brackets.

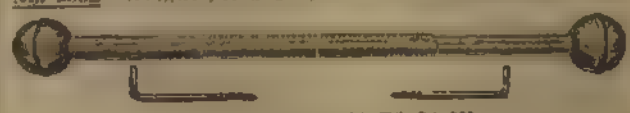
No. 9043—Weight per doz. about 5 lbs.. Per Dozen, $3.60



EXTEND FROM 30 TO 54 IN.

Brass Plated Polished Rods, with Ferrule 7/16 in. Diameter; Fancy Ends 1¼ in. in Diameter; Complete with Brass Plated Wire Brackets

No. 9052—Weight per doz. about 4 lbs.. Per Dozen $3.30



EXTEND FROM 30 TO 54 IN.

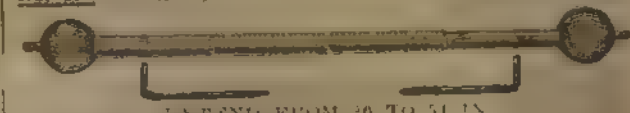
Brass Plated Polished Rods, 7/16 in. Diameter. Plain Ends 1¼ in. in Diameter; Complete with Brass Plated Wire Brackets.

No. 9044—Weight per dozen about 4 lbs..Per Dozen, $2.20

EXTEND FROM 28 TO 44 IN.

Brass Plated Polished Rods, 7/16 in. in Diameter; Corrugated End 15/16 in. Diameter. Complete with Brass Plated Wire Brackets.

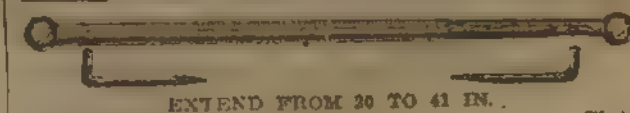
No. 810—Weight per doz. about 4¼ lbs...Per Dozen, $2.00



EXTEND FROM 20 TO 34 IN.

Brass Plated Polished Rods 7/16 in. Diameter; Silvered Corrugated Ends, 1¼ in. in Diameter. Complete with Brass Plated Wire Brackets.

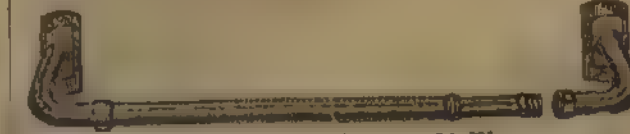
No. 1007S—Weight per doz. about 3½ lbs. Per Dozen, $1.40



EXTEND FROM 20 TO 41 IN.

Brass Plated Polished Rods ⅛ in. in Diameter; Plain Ball Tip Ends ⅜ in. in Diameter; Complete with Brass Plated Brackets.

No. 817—Weight per doz. about 2¾ lbs...Per Dozen, $1.00



EXTEND FROM 30 TO 54 IN.

Brass Plated Polished Rods, with Ferrule, ⅛ in. Diameter. Projects 2½ in., Size of Base Plate 1½x⅛ in.

No. 9082—Weight per doz. about 5 lbs...Per Dozen $3.20

One Dozen in a Cardboard Box.

POLE SETS.

CURTAIN

For 1¼ in. Curtain Poles; Two Ornamental Wrought Brass Pole Ends, 2¾ in. in Diameter, with 1⅝ in. Wrought Brass Base; Two Wrought Steel Brackets, Brass Plated; Projection to Center of Pole 2⅛ in.

No. 750—Weight per dozen sets about 2½ lbs...Per Dozen Sets $2.50

For 1 in. Curtain Poles, Two Ornamental Wrought Brass Pole Ends, 1⅜ in. in Diameter, with 1 in. Wrought Brass Base, Two Wrought Steel Brackets, Brass Plated; Projection to Center of Pole 1¾ in.

No. 765—Weight per dozen sets about 2 lbs.....Per Dozen Sets $2.30

One-twelfth Dozen Sets in a Cardboard Box

POLE BRACKETS.

CURTAIN.

Wrought Steel, Brass Plated.

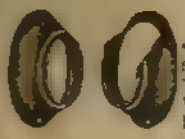
Nos.	781	781½
Size, inches	1	1½
For Poles, size, inches	1	1½
Projec'n to Center of Pole, in.	1⅜	2
Wgt. per doz. pairs abt., lbs.	1	1½
Per dozen pairs	$0.48	0.48

Wrought Steel, Brass Plated; with Ornamental Brass Plated Studs.

Nos.	471	471½
Size, inches	1	1½
For Poles, size, inches	1	1½
Projec'n to Center of Pole, in.	1½	2
Wgt. per doz. pairs abt., lbs.	1	1½
Per dozen pairs	$1.10	1.10

One Dozen Pairs in a Cardboard Box.

POLE SOCKETS.



CURTAIN

Wrought Brass, Polished.

Nos.	4371	4371½
Size, inches	1	1½
For Poles, size, inches	1	1½
Wgt. per doz. pairs abt., lbs.	¼	½
Per dozen pairs	$0.60	$0.64

Wrought Brass, Polished, with Patent Detachable Sleeve.

Nos.	4631	4631½
Size, inches	1	1½
For Poles, size, inches	1	1½
Wgt. per doz. pairs about, lbs.	½	1
Per dozen pairs	$1.10	$1.30

One dozen Pairs in a Cardboard Box

SHADE BRACKETS.

1⅛ in., Wrought Steel, Copper Plated Finish; Per Gross Pairs

No. 415—Weight per Gross Pairs about 5 lbs. $3.00

One-half Gross Pairs in a Cardboard Box

ROD BRACKETS.

CURTAIN

Brass Plated Steel Wire, No. 9 Gauge. Per Gross

No. 347—2½ in., Weight per gross about 2 lbs $0.58

Brass Plated Steel Wire, No. 12 Gauge.

Per Gross

No. 371—1⅛ in.; Weight per gross about ½ lb. $0.60

One Gross in a Cardboard Box.

POLE RINGS.

CURTAIN

Wrought Brass, Polished.

Nos.	002½	002¾
Size, inches	¾	1
For Poles, size, inches	1	1¼
Weight per 100 about, lbs.	1½	1¾
Per 100	$1.20	1.50

Two Hundred in a Cardboard Box.

CURTAIN RINGS.

Rolled Brass, Hollow; Polished.

Nos.	38	12	58	34	78	1	118
Inside Diam., in.	⅜	½	⅝	¾	⅞	1	1¼
Wgt. gro. abt., oz.	2	3	3	4	4	8	12
Per gross	$0.40	.44	.60	.70	.90	1.30	2.20

⅜ in. to ⅞ in., Twelve Gross in a Cardboard Box; 1 in. to 1¼ in., Six Gross in a Cardboard Box

SCREW

Rolled Brass, Hollow Rings; Solid Brass Screw.

Nos.	05½	05¾
Inside Diameter of Ring, in.	⅝	¾
Length of Screw, inches	⅝	⅝
Weight per gross about oz.	8	10
Per gross	$3.00	4.00

One Gross in a Cardboard Box

Wrought Steel Nickel Plated Polished, with Nickel Plated Screw Eye.

No. 854—1¼ in.; Weight per Gross about 3 lbs. .....Per Gross, $1.10

One-half Gross in a Cardboard Box.

LAMBREQUIN OR DRAPERY HOOKS.

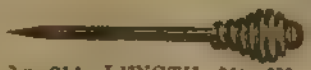
Brass Plated 17 Gauge Steel Wire; Length 1¾ in.

No. 3270—Weight per gross about ¼ lb. .....Per Gross, $0.60

One Gross in a Cardboard Box.

PICTURE NAILS.

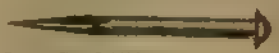
CROWN.



Nickel Plated Steel Wire Spike; Coiled Spring Wire Head.

No. 014—LENGTH 2½ IN.; Weight per gross about 4 lbs.....Per Gross, $3.30

One-quarter Gross in a Cardboard Box.



Steel Wire Spike Covered Head.

Per Gross

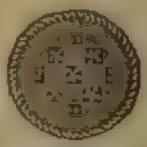
No. 2B—LENGTH 2 IN.; Weight per gross about 2 lbs. $2.00

No. 3B—LENGTH 3 IN.; Weight per gross about 2½ lbs. 3.00

One Gross in a Cardboard Box

All Picture Nails shown below have Coppered Steel Wire Spikes and Detachable Slide Heads.

SLIDE HEAD.



Fancy Blue and Gold Center; Fancy Silvered Rim, Length of Spike 3 in.; Diameter of Head 1 in.

No. 7323—PORCELAIN HEAD; Weight per gross about 5 lbs....Per Gross, $0.00

Ruby, with White Star Center; Fancy Silvered Rim; Length of Spike 3 in.; Diameter of Head 1 in.

No. 923½—GLASS HEAD; Weight per gross about 5 lbs.....Per Gross, $8.00

With Fancy Blue Center; Fancy Silvered Rim, Length of Spike 2⅛ in.; Diameter of Head ⅞ in.

No. 134—GLASS HEAD; Weight per gross about 4 lbs.....Per Gross, $5.50

One-quarter Gross in a Cardboard Box.

THE GOGGLE AND ITS EMPLOYMENT

The olf saying: "Looks are Deceiving," takes the form of a complaint when goods do not answer catalog's illustrated description, and one of the most difficult articles to represent is the goggle. Goggles are used in most walks in life wherein wind, dust, gas and other of nature's effects become likely to injure man's most needed organ, the eye. The largest users of goggles are: Automobilists, engineers, farmers (threshers), miners, mill-hands and workers in stone. We call attention to the price and quality of the fine imported French goggles herein displayed, and beg, earnestly, to assure our patrons that the illustrations do not flatter or do justice to the material article.

COLLAPSIBLE GOGGLES

No. 7285

		Per dozen	Each
No. 7285	Collapsible tan eye cups, leather mask, unlined, bound with silk	$16.65	$ 1 65
No. 7285L	Collapsible leather frame, amply protected nose piece, bound in chenille	23.25	2.30

No. 18025

		Per Dozen	Each
No. 18025	Collapsible egg-shaped silk eye cups, extra large bent glasses, chenille bound around the edge	$29 60	$ 2.95

No. 17209

		Per dozen	Each
No. 17209	Aluminum frame extra large bent glasses, easily interchangeable, leather mask, lined with green silk and bound with chenille, extra wide vision	$20.40	$ 2.00
No. 17209A	Same as above, in amber	25.20	2.50

N B.—Amber produces an exhilirating effect on the nerves and is an instantaneous relief to fatigued minds.

No. 17703

		Per dozen	Each
No. 17703	Collapsible, ventilated, bent glasses, leather mask	$11 25	$ 2.30
No. 17220	Collapsible egg-shaped eye cups, leather mask, unlined and bound with silk	13.50	1.35

Buy your Fever Thermometer from this display package. Always look for it. Insist upon the name "Tycos."

"TYCOS" ACCURACY

Naturally, where tenths of a degree are of the greatest importance, as in clinical observations, the accuracy of the thermometer is vital. Without accuracy all else is useless, and one is much better off without a thermometer at all. The protection of the public lies in the copyrighted name "Tycos," which is always found on every genuine "Tycos" instrument and which is to all thermometers as "sterling" is to silver.

No. 5000 Tycos one minute Fever Thermometer in aseptic safety case with clip attachment which holds case firmly to vest or nurse's pocket, price, each, $5.00, Per dozen, $50.00

SPECIAL THERMOMETER CASES
(Fever)

This case is made for people that wish to make a nice appearing present.

	Each
No. 111 Case only	$ 5.55
No. 112 Case and first grade Thermometer	8.35

Hupmobile

Now Europe claims half of all the cars we can build for 1914

When we designed the Hupmobile we made it essentially an American car, for use under American conditions.

But Europe thinks the American Hupmobile such a good car, and so well suited to European requirements, that it stands ready to absorb half of the coming year's output of 1914 cars.

Can you imagine a tribute higher than this or a more positive confirmation of our belief that the Hupmobile is the best car of its class in the world?

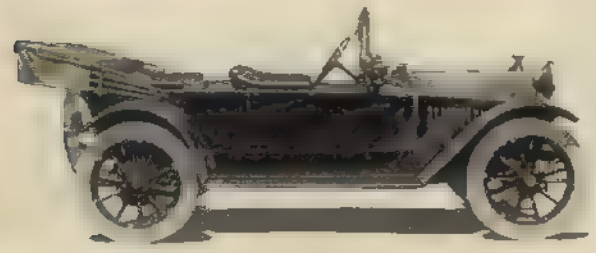
The Briton, the Frenchman, the German, pays $200 to $400 more for his Hupmobile than you do because he recognizes its high quality and its operating economy

Likewise the Hupmobile buyers of South Africa, Australasia and New Zealand, where the Hupmobile has overcome an anti-American prejudice even stronger than that which exists in the European countries

And in the Philippines—thousands of miles from home—the Hupmobile is as truly the car of the American family as here, as shown by the domination of its name on the registry lists

Thus the belief that the Hupmobile is the best car of its class in the world rolls on to practically every section of the globe where automobiles are used.

Hupp Motor Car Company, 1330 Milwaukee Avenue, Detroit, Mich.



"32" Touring Car or Roadster—$1050 f. o. b. Detroit

In Canada, $1[illegible] f. o. b. Windsor

SPECIFICATIONS [illegible] Hupp-Atlas motor [illegible] Hupp-Atlas rear axle [illegible] Hupp-Atlas front axle [illegible] Hupp-Atlas transmission [illegible] Hupp-Atlas steering gear [illegible] Hupp-Atlas starting and lighting system [illegible] Hupp-Atlas carburetor [illegible] Hupp-Atlas magneto [illegible] EQUIPMENT—Rain vision [illegible] with mohair top with envelope; Jiffy curtains, [illegible] heater, cocoa mat in tonneau, Prest-O-Lite, [illegible] storage battery, [illegible]

"51" Touring Car or Two-passenger Roadster with Westinghouse two-unit electric generator and starter, electric lights, oversize tires, 33 x 4 inches, demountable rims, extra rim and tire carrier at rear. $1200 f. o. b. Detroit

In Canada $1[illegible] f. o. b. Windsor

The Car of the American Family

¶ Ever try to sell a second-hand car that wasn't made any more?

¶ It is some job.

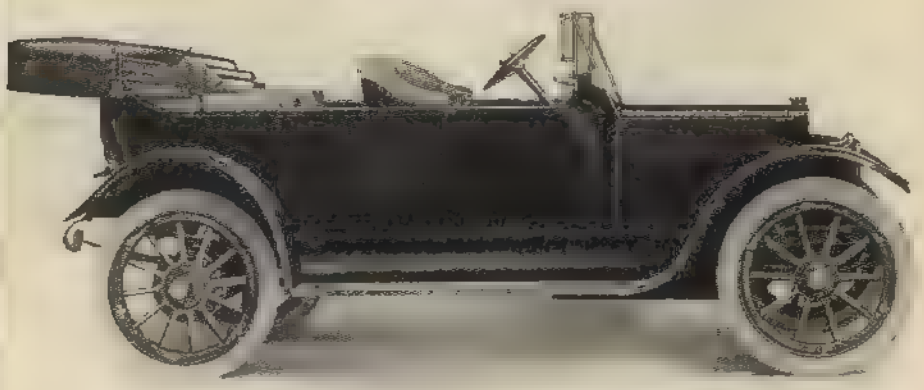
¶ We won't attempt to give here the varied collection of objections the prospective buyer offers, but—

¶ They can, and will be raised against any car whose maker is now in financial difficulty or regarding which there is the slightest whisper of impending trouble.

¶ The Apperson Brothers have been making the

Famous Apperson "Jack Rabbit"

"The Wizard of the Hills"



Four, Forty-Five Touring—$1785.00

at Kokomo, Indiana, continuously since 1893.

¶ Think it over.

¶ Now and then a good territory open for a business-man dealer.

Address Department "D" for prompt attention

Apperson Brothers Automobile Co.

KOKOMO, INDIANA

THE

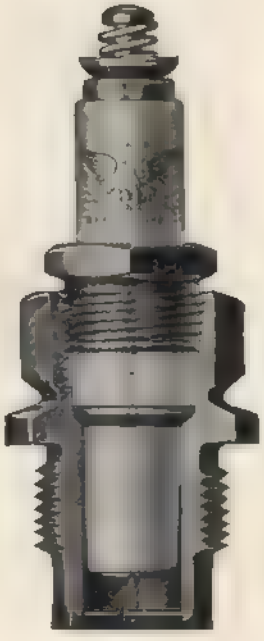
"Black Eagle"

Spark Plug

PATENTED

50 Cents Is Enough

The "Black Eagle" Spark Plug has made good because it was designed and manufactured with this object in view.



A person in close touch with the supply and manufacturing ends of the trade was a visitor at our factory recently, and was shown the details of construction, including the machinery, testing and assembling of the **"Black Eagle"** Spark Plug. What he said we believe will be of interest to you, as it indicates the effort on our part to supply a high-grade plug at a reasonable price. We, therefore, quote below his impressions.

"I am simply amazed at the workmanship, material, and construction of the **"Black Eagle"** Spark Plug. When I saw this plug advertised at a price of 50c to the consumer, I naturally supposed it was a cheap, common plug, such as you occasionally find in jobbing houses on the [illegible] counter. I am convinced, after seeing these plugs tested, and examining minutely the machine parts which enter into their construction, that **no better porcelain spark plug is offered by anyone, regardless of the price they ask."**

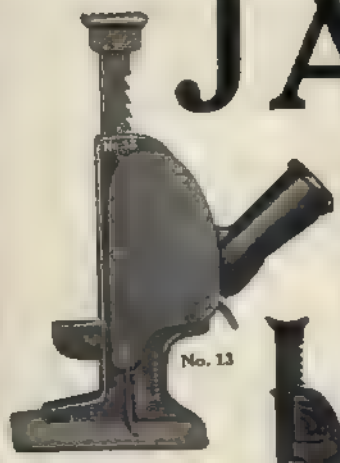
We are not influenced by what our competitors charge for spark plugs! We have ignored price precedent, for the reason that a high-grade spark plug can be manufactured and sold at 50c each, and that is enough.

Sent prepaid on receipt of price. Made in all standard threads and motorcycle special.

The Standard Company

Torrington, Conn., U.S.A.

BUCKEYE JACKS



Here are some of the hardest working and most dependable members of the jack family. They are highly esteemed by motorists because they never fail to give the right kind of service in time of need.

The BUCKEYE JACKS are of varied sizes, styles and capacities, but each is a sterling performer of his own particular task.

Made of the highest grade Malleable Iron and High Carbon Steel Drop Forgings, heat-treated. Safe, strong, reliable. Raise and lower automatically. Cannot accidentally drop load. Fully guaranteed. Hard enamel finish. Send for catalog and see full line.

There's a jack for every motoring need in the following line. Each will give better service than any jack of corresponding price made elsewhere

Schedule for Automobile Jacks

No.	Height Bar Down	Raise of Bar	Height Bar Up	Weight	Capacity	List Price
000	11¼″	6″	17½″	5½ lbs.	1 ton	$3.00
00	12″	6″	18″	4½ "	1800 lbs.	2.00
0	12″	6″	18″	9 "	1 ton	3.00
01	8¾″	5″	13¾″	8½ "	1 ton	4.50
01	9¾″	5″	14¾″	8½ "	1 ton	4.50
03	10″	6″	16″	8 "	1800 lbs	4.50
04	10⅝″	7″	17⅝″	8 "	1 ton	4.50
06	11⅜″	7½″	19″	9 "	1 ton	5.00
08	10½″	7″	17½″	6 "	1 ton	5.50
09	11¼″	7½″	18″	7 "	1 ton	4.00
010	11¼″	7½″	18″	7 "	1 ton	4.50

The No. 0 and 06 are adapted for the heaviest touring cars with 30" to 40" wheels.

Buckeye High-Grade Motor Truck Jacks

No.	Height Bar Down	Raise of Bar	Height Bar Up	Weight	Capacity	List Price
7	11¾″	6½″	18″	16 lbs.	2½ tons, with formed handle,	$10.00
13	14½″	7½″	20½″	26½ "	3 "	15.00
14	14¾″	7¼″	20½″	33 "	5 "	16.00

Nos. 08-09-010 have high-carbon steel, machine-cut teeth racks.

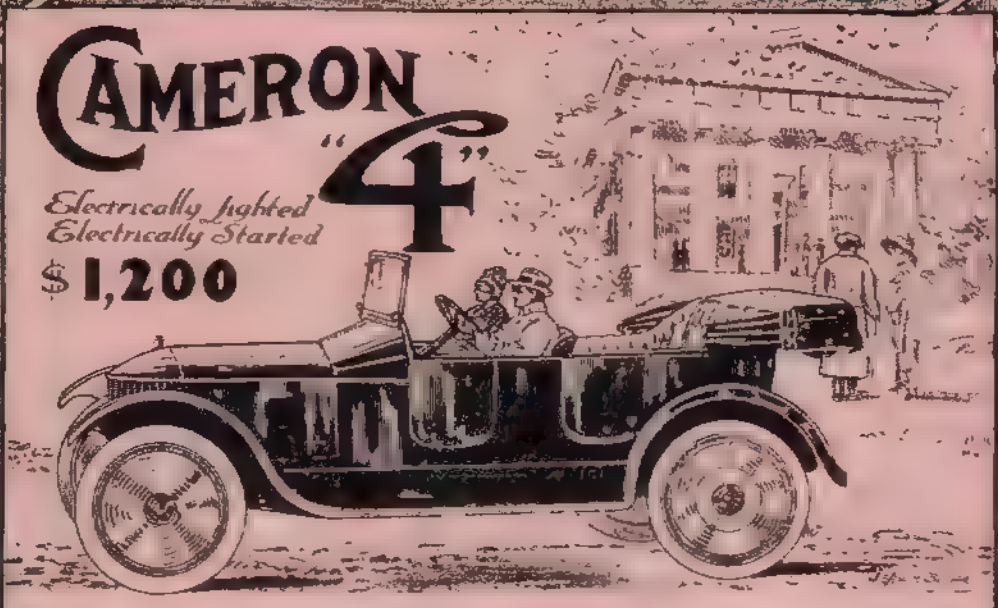
THE BUCKEYE JACK MFG. CO.

ALLIANCE, OHIO

CAMERON "4"

Electrically lighted
Electrically Started

$1,200



Four Speed Direct Drive

¶ Maximum power [illegible] keep, coupled with simplicity [illegible] the keynote of [illegible] are striking. Mechanical [illegible] reduced to a minimum, gears that do proper work [illegible] Cameron designed and patented the CAMERON FOUR SPEED DIRECT DRIVE TRANSMISSION was the problem solved.

¶ The CAMERON (PATENTED) FOUR SPEED DIRECT DRIVE TRANSMISSION is absolutely the only type of transmission that permits of direct drive on every speed. Proven by severe tests on racing tracks, hill-climbing and endurance runs, the Cameron transmission produces the only direct and sensible connecting link between engine and driving wheels, and positively gives twenty-five per cent more efficiency over all other types.

¶ With this style transmission, changing gears becomes simplified, and all dangers of stripping gears by inexperienced operators eliminated.

¶ Among the widest range of gear [illegible] giving [illegible] driving speed [illegible] every speed [illegible] speed [illegible] load and [illegible] could be added to the fact that its engine gives the largest percentage of [illegible] the rear wheels in all speeds [illegible] the CAMERON [illegible] uses [illegible] of fuel, the leader.

¶ The CAMERON CAR for 1914 typifies everything that goes to make motoring a pleasure. The sturdiest, best constructed and most economical car built in America.

¶ A car that is built complete under one roof, and by one complete organization. Mr. Cameron designed the car complete, our own forges turned the crude material, our own skilled mechanics assembled the parts in entity.

¶ Only in such a manner could such a car be produced, at such a price.

¶ Everything that pertains to motoring comfort has been incorporated into its construction. Started and lit by electricity, [illegible] from the left side with [illegible] control. The long stroke [illegible] long wheel base gives a riding [illegible] therefore [illegible]

SPECIFICATIONS

MOTOR [illegible] Bore 3½, stroke 5. Valves [illegible] of cast iron cylinders, pressed on, each being [illegible] cylinder [illegible] Cameron [illegible]

CLUTCH [illegible]

TRANSMISSION—Cameron. Patented four speed direct drive [illegible]

IGNITION High tension magneto

LUBRICATION [illegible] pump

WHEEL BASE [illegible]

REAR AXLE [illegible] floating type

FRONT AXLE [illegible]

SPRINGS [illegible]

WHEELS [illegible]

TIRES [illegible]

BRAKES [illegible]

STEERING [illegible]

DRIVE [illegible]

DASH [illegible]

GASOLINE [illegible]

RADIATOR [illegible]

FINISH [illegible]

UPHOLSTERY—[illegible] Cashmere

WEIGHT [illegible]

EQUIPMENT [illegible]

Fully equipped with every requisite $1200

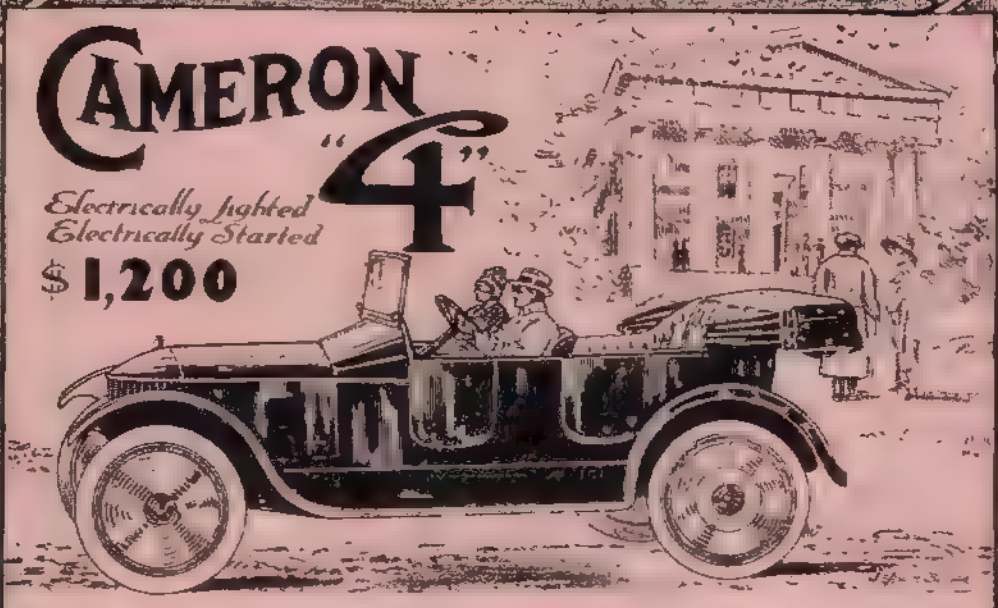
The Cameron Mfg. Co., New Haven, Conn.

Exhibit Space, C-16, 3rd Floor, New York Show

CAMERON "4"

Electrically lighted
Electrically Started

$1,200



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LUBRICATION [illegible] pump

WHEEL BASE [illegible]

REAR AXLE [illegible] floating type

FRONT AXLE [illegible]

SPRINGS [illegible]

WHEELS [illegible]

TIRES [illegible]

BRAKES [illegible]

STEERING [illegible]

DRIVE [illegible]

DASH [illegible]

GASOLINE [illegible]

RADIATOR [illegible]

FINISH [illegible]

UPHOLSTERY—[illegible] Cashmere

WEIGHT [illegible]

EQUIPMENT [illegible]

Fully equipped with every requisite $1200

The Cameron Mfg. Co., New Haven, Conn.

Exhibit Space, C-16, 3rd Floor, New York Show

Chalmers-1914
The New "Six"

A New Car With a New Motor

Flexible as Steam
Silent as Electricity
Vibrationless as the Turbine

These three things, makers of gasoline motors have sought for years. Some have secured silence, but at the expense of power. Others have obtained smoothness at the cost of efficiency. A few have sought flexibility through supplementary gearing.

We give you all three in the new "Six"—and we sacrifice no power—we lose no efficiency—we require no extra gearing.

The Flexibility of Steam

With the New "Six" you can do nearly everything on high gear.

You can idle down to a tortoise crawl, in a crowd, and at the touch of the throttle be off like a thoroughbred, without touching the gear lever.

And the motor does it all. It gives a flexibility equaled only by the steam engine.

The Smoothness of the Turbine

Vibration means the moving parts of your motor are over-weight or out of balance.

By using highest grade materials we make our pistons and connecting rods 40% lighter than common. They are balanced on a delicate scale.

The six cylinders of this master motor give a continuous push to the pistons. No interval between explosions.

This gives unequaled smoothness and economy. This is the result of a good six-cylinder motor and *cannot be obtained in any other way.*

Silence that Lasts

Our big oval cams lift the valves and slide them shut without a sound. So even at high speeds, the New "Six" runs with the silence of sailing.

This silence means no friction—no wear—no waste. It means renewal and upkeep costs cut almost to nothing. The New "Six" proves that luxury and economy can go together.

Sustained Horse Power

The values of the New "Six" are made of Chalmers Tungsten of diamond hardness. The cylinder heat has no effect upon them. So they never leak nor waste power.

The silent Entz electric starter of the New "Six" makes the motor unstallable.

It automatically keeps your car from going dead in a crowd or on a dangerous crossing.

Chalmers Standard Road Test

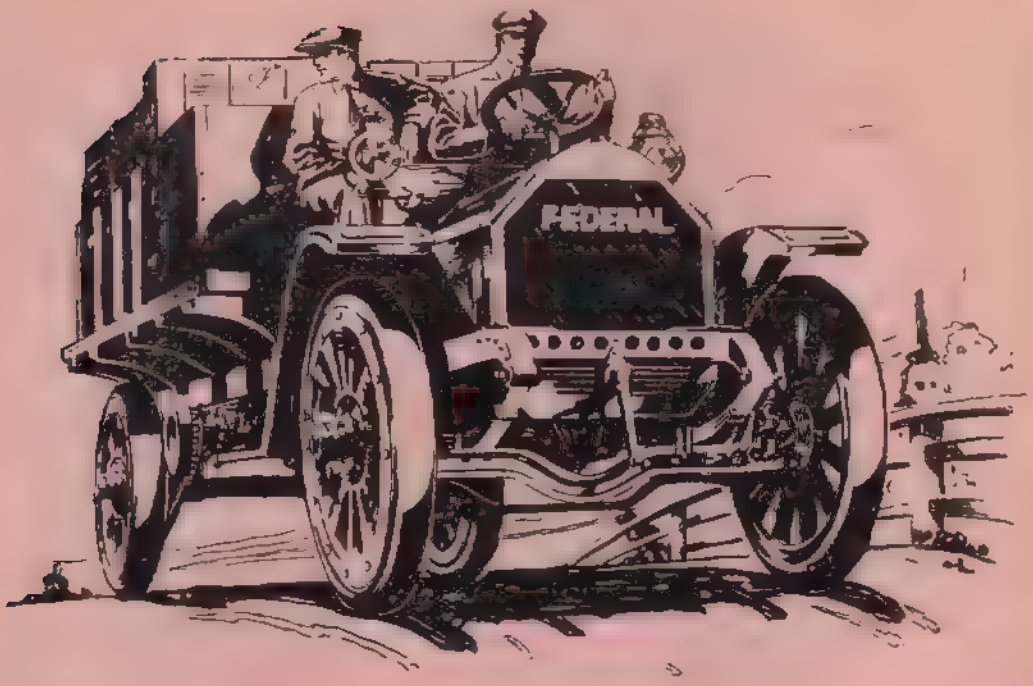
We invite you to ride in the New "Six." In that way only can you really know the merits of this car. Your Chalmers dealer will gladly give you the Chalmers Standard Road Test.

Write today for our catalogue

Roadster - -	$2175	Six-Passenger	$2275
Four-Passenger	2175	Coupé - - -	2850
Five-Passenger	2175	Limousine -	3600

All bodies interchangeable. Wire wheels, $80 extra (five)
Fully equipped, f. o. b. Detroit

Chalmers Motor Company, Detroit



Because we build more trucks of one type than anyone else—your transportation costs less

We have always built trucks of *one size and capacity*, and are today the *largest producers of 3,000 pound trucks.*

That's why we can produce this truck at a price of *$300 to $1000 less than any other truck approximating the high efficiency and low up-keep* of the Federal.

Federals are working in *over 100 lines of business*, and in *every state in the Union.*

Let us send *your* copy of the Blue Book of Traffic. It is the story of *the modern method of delivery* FEDERALIZED TRANSPORTATION.

PRICE Includes Seat, Lamps, Tools, etc.	$1800 F. O. B. DETROIT	Body Extra Built to meet individual requirements

FEDERAL MOTOR TRUCK CO., Dept. N, Detroit, Mich., U. S. A.

Model T Runabout . $500
Model T Touring Car 550
Model T Town Car . 750

With Full Equipment, f. o. b. Detroit

Ford Motor Company
Detroit, Michigan

FORD OWNERS

Make your car a business producer as well as a pleasure giver by purchasing a

Sherwood Automobile Trailer

This can be attached to your car in a moment's time and enable you to make deliveries of goods, haul produce, supplies, etc., and eliminate delivery and local express charges without adding anything to the cost of maintenance of your pleasure car. Your car is a pleasure car one moment, a commercial car the next — just as, and when you want it. Inexpensive to buy, it will soon pay for itself and make your car virtually a source of income instead of an expense. Ready for anything at any time and can be attached to any make of car. Write today for particulars.

Ford Dealers — Attention!

Here's a great field, with a good profit from a small investment. Sells readily to farmers, merchants and business men without extensive delivery system, in all lines of business. You can easily create a big demand for the trailer and make it a very profitable end of your business. Write for prices and discounts.

Sherwood Brothers Mfg. Co.

250 James Street **Canastota, New York**

GILMER ADJUSTABLE FORD REBOUND STRAPS

These straps used on Ford cars will make them fully as comfortable as many cars of far greater weight. They are virtually a necessity for Ford owners, as they not only increase the comfort of the passengers, but positively prevent spring breakage, side sway and excessive bouncing over rough roads and bad crossings.

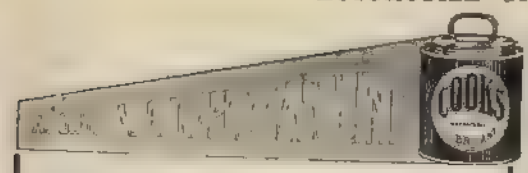
Gilmer Ford Straps are not only inexpensive to buy, valuable in service and enduring in wear, but will soon save enough in the running of your engine to pay for themselves. Guaranteed not to break in service.

The Gilmer Strap is standard factory equipment with many leading cars, such as the Packard, Cadillac, Chalmers, Hudson, Hupmobile, etc.

A profitable proposition for dealers and jobbers.

PRICE, $4.00 Per Set of Four Complete. $2.00 Per Pair

L. H. GILMER COMPANY, ACCESSORY DEPARTMENT 52 N. 7th St., Philadelphia, Pa.



Good lubrication is as good as cheaper gasoline, as it reduces friction and gives greater mileage per gallon of fuel. Cook's Lubricant always keeps gears swathed in grease. It reduces friction. Ask for literature describing its many unique features.

Motor Dept.
ALBANY LUBRICATING COMPANY
Adam Cook's Sons, Props.
708-710 WASHINGTON ST. NEW YORK

Why take a chance on getting steady profits?

Mr. Gasoline Car Dealer, why few upkeep expense during the dull season cut into your profits? Wouldn't you rather have a real brisk fall and spring business *twelve months out of twelve?* You can, if you acquire the agency for this splendid, nationally advertised car—

Five-passenger coupe, $2,900 — The Borland Electric — Open body, wheelbase roadster $2,350

Backed by enviable financial strength, the car with *all* the best features. Liberal local advertising assistance. Your territory may still be open. Write or wire us today.

THE BORLAND-GRANNIS COMPANY
318 East Huron Street CHICAGO, ILL.

"It's all in the Clutch"
ECLIPSE
Free Engine Pulley for all 1912 Models

Unnecessary to make a flying leap for the saddle when your motor begins to explode.
Works on the same principle as the clutch on an automobile.

ONLY THREE MAIN PARTS

The removal of 6 screws in the face shows heart of pulley.

SIMPLE DURABLE EFFICIENT

Price, with handle bar control, $15.00
Price, with side lever control, $16.50

What are your requirements?

ECLIPSE MACHINE COMPANY Elmira, New York

In all kinds of bearings
Fahrig Metal
gives perfect satisfaction.

Fahrig Metal Co., 34 Commerce Street NEW YORK

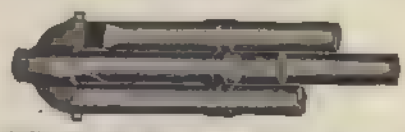
You Can Save Hundreds of Dollars
every year on postage bills alone, if you use

CHILTON ADVERTISING POST CARDS
IN COLORS

for your follow-up campaigns. Your advertising will be more effective, because everybody will notice your Chilton Post Card. We are specialists in this class of printing, and our enormous production guarantees satisfaction.

WRITE US FOR PARTICULARS
Chilton Co., Market & 49th Sts., Phila.
(Post Card Department)

HARKAWAY



Melodious—Insistent—Dependable
One size for all cars.
Best in Quality
Lowest in Price
Will not clog, break or rattle.
Write for exclusive agency proposition.

$10

CAMPBELL MANUFACTURING CO.
3715 Wentworth Avenue, Chicago, Ill.

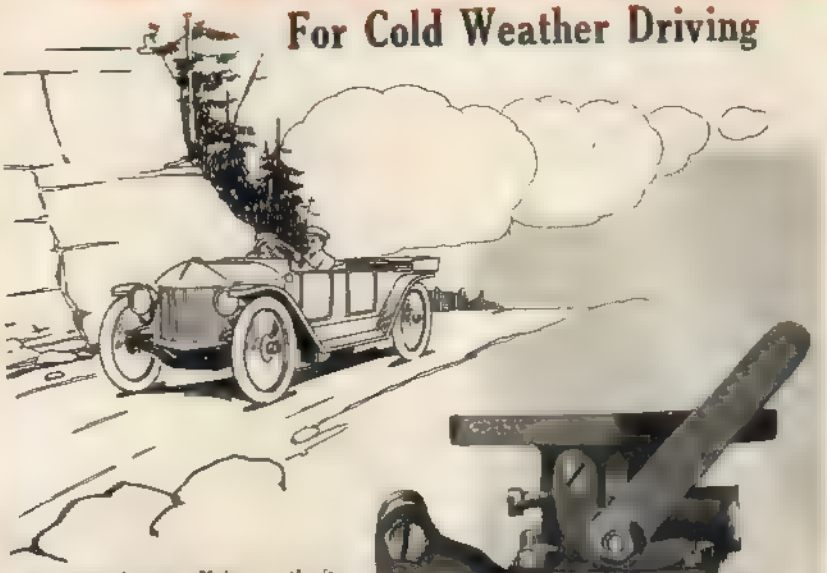
BODIES

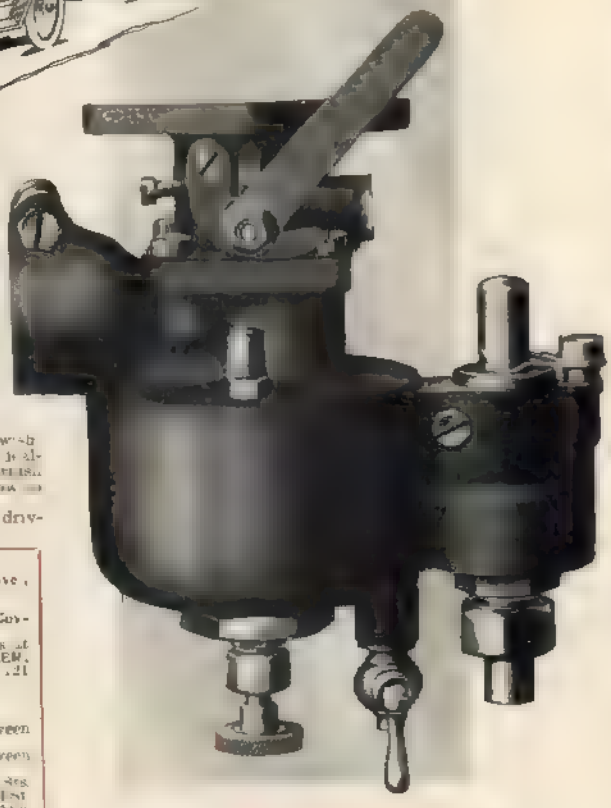
AUTO BODY COMPANY
Lansing .·. .·. Michigan

A helical spring made of oil tempered steel wire, attached as illustrated makes any car easier to control and helps prevent accidents. You should have one. Ask your dealer or write for full information.

HOLLEY CARBURETOR

For Cold Weather Driving





The Self-adjusting Holley with its temperature regulator makes starting and driving as easy in zero weather as in summer.

Having no springs to be affected by extreme temperature changes, it maintains an accurate mixture under all conditions.

225,000 owners are using the Self-adjusting, Economizing Holley.

You can have one on your car if you wish. If you are not near any of our regular dealers, send check, draft or money order, and one will be sent you, express prepaid, to install it.

It is so economical that 5,000 miles of driving will pay for it.

REO ACCESSORIES CO., 1220 Michigan Ave., Chicago, Ill.
OMAHA RUBBER CO., Omaha, Neb.
Foreign Branch: HOLLEY BROS. CO., Coventry, England.

Holley Carburetors are carried in stock at the following places: CHAS. E. MILLER, Home Offices, 27 to 37 Reade St. and 21 Chambers St., New York.

BRANCHES:

New York City	924 Eighth Ave., between 54th and 55th Sts.
New York City	1752 Broadway, between 56th and 57th Sts.
Springfield, Mass.	Bridge and Dwight Sts.
Hartford, Conn.	[illegible]
Atlanta, Ga.	[illegible] Edgewood Ave.
Brooklyn, N. Y.	142 [illegible] Ave.
Buffalo, N. Y.	[illegible] Main St.
Albany, N. Y.	[illegible] Central Ave.
Boston, Mass.	[illegible] Columbus Ave.
Detroit, Mich.	[illegible] Jefferson Ave.
Cleveland, O.	[illegible] Euclid Ave.
Philadelphia, Pa.	[illegible] N. Broad St.
New Orleans, La.	[illegible] Baronne St.
Newark, N. J.	274 Halsey St.

Full information from

Holley Brothers Company
131-141 Rowena St., Detroit

Sturdiness and Power

There's a sturdy truck—there's a Kelly! The Kelly is not a pleasure car—except that it brings pleasure to its owner in the saving of money and the betterment of service, but first and most important of all, it is a TRUCK unhampered by the traditions of pleasure car practice in engineering and in manufacture

"The sturdy Kelly"—that best expresses it—willing, competent, trustworthy and always doing a little more and a little better than was expected of it.

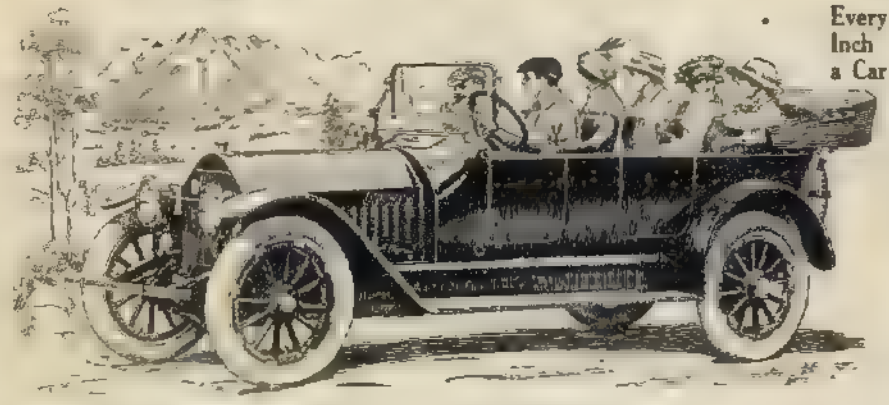
Sturdy Kellys make bigger days and restful nights because they run on schedule.

Write for more information.

DEALERS--
There is still some desirable Kelly territory open. Write us.

THE KELLY-SPRINGFIELD MOTOR TRUCK COMPANY
509 Burt Street, Springfield, Ohio

A "Six" of unsurpassed ability, elegance and comfort



Every Inch a Car

The seven-passenger KisselKar 60 "Six" easily maintains its leadership as the conspicuous value among big "Sixes." In quality, appointments and performance it is unsurpassed. Only a few of the very highest priced cars can equal the extreme comfort of the big KisselKar 60 "Six." When you ride in it, you experience for the first time the fullest possibilities of balanced automobile construction and the capabilities of a real motor.

KISSELKAR 60 "SIX"

A car of remarkably attractive personality. You can't look at this striking "Big Six" without being strongly impressed with its thoroughbred quality. Even when standing quiet at the curb, you feel its power, and "sense" its potential ability as a car of the highest type.

The price of the KisselKar 60 "Six" is $3150, fully equipped, Golde patent "one man" top, Warner Speedometer, Klaxon Horn and many other earmarks of de luxe cars are all found in the powerful, silent, smooth-running KisselKar 60 "Six."

The new KisselKar 48 "Six" at $2350 makes a worthy running mate to the "Big Six" and the 40 "Four" at $1850 is a distinct leader in its class.

All KisselKars are fully equipped—electric lighted and started and have left-hand drive, center control. Illustrated catalog on request.

KisselKar Service Contract

KisselKars are sold under a specific guarantee of service to owners—a written contract that stipulates in detail the mechanical care that forestalls trouble and retards depreciation. The unusual facilities at our Service Stations are always at your disposal.

KisselKar Trucks—Six sizes 1500 pounds to 6 tons—are used in over 200 distinct lines of business. Ask for Truck Catalog.

KISSEL MOTOR CAR CO., 120 Kissel Ave., Hartford, Wis.

BOSTON, NEW YORK, CHICAGO, MILWAUKEE, KANSAS CITY, MINNEAPOLIS, ST. PAUL, DALLAS, SAN FRANCISCO, LOS ANGELES, OAKLAND

Philadelphia, Detroit, Houston, El Paso, Washington, Baltimore, Nashville, Duluth, Buffalo, Pittsburgh, Hartford, Conn.; New Haven, Albany, Troy, Rochester, Providence, Cincinnati, Newark, Montreal, Quebec, Toronto, Winnipeg, Calgary, and 300 other principal points throughout America.

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14th Annual Complete Car Review

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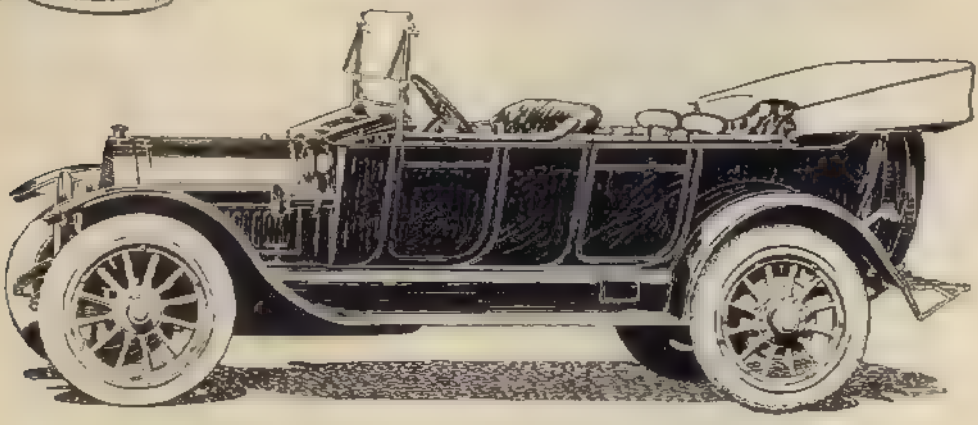
Lyons-Knight

"The Car of Silence"



Quality First—Then Quantity!

The Lyons-Atlas factory, covering 627,000 sq. ft. of floor space with the finest of machinery and equipment, with six miles of its own railroad track, has a capacity of 50,000 cars per year.

It is backed by ample capital. For two years its organization has been built up to include the most experienced executives, engineers, production managers, salesmen and factory force in the automobile industry.

Every effort has been extended to produce a car that would appeal to the discriminating buyer who knew and wanted the best—the result is the Model K-4-Lyons-Knight—"The Car of Silence."

To the Dealer

We are forming the finest sales organization in America. Already the best established, most experienced dealers in leading cities all over the country have joined this organization

They became identified with the Lyons-Knight because they were convinced of its quality—of the businesslike, open-and-above-board, square, broad-gauge policy behind it.

The same proof awaits you.

Lyons-Atlas Company
Indianapolis, Indiana

Lyons-Knight Features

50 horse power silent KNIGHT ENGINE—the finest power plant ever made.

Silent, smooth, efficient WORM DRIVE.

130-inch wheelbase with 37 x 5 inch tires, non-skid in rear, on quick-detachable, demountable rims.

Full-floating rear axle, strong, flexible springs, ample brakes.

Left-hand drive, center control.

Extra complete equipment, with electric starting and lighting system, patent one-man top, with drop side curtains and every other refinement.

Price—Five-Passenger Touring Car—$2900; Seven-Passenger Touring Car—$2980.

Deliveries—Now!

Value—Unequaled!

KEYSTONE-HINDLEY SPIRAL GEAR AXLES

The modern drive which has proved its superiority over all other forms. Keystone-Hindley Spiral Geared Axles maintain their high efficiency to the end of the life of the metal and will outwear a dozen chains. Enclosed, hence — absolutely dust and trouble-proof, runs in oil and is noiseless;—admits of great reduction without the use of very large gears and will coast freely. Made for trucks from 1 to 5 tons. Our interesting catalog mailed on request.

Increases Life of Service! Decreases Cost of Upkeep!

KEYSTONE-HINDLEY GEAR CO., 704 Pennsylvania Bldg., Phila., Pa.

One Ton **Crown Trucks** Two Tons

Worm-Driven

DEALERS: — The Crown line of worm-driven trucks is the most advanced commercial car, mechanically, that will be shown for 1914. It is sensational.

See them before contracting for next season. Write us now about your territory for the CROWN line. Deliveries December 15th.

CROWN COMMERCIAL CAR CO., North Milwaukee, Wis.

The Davis Industrial Motors

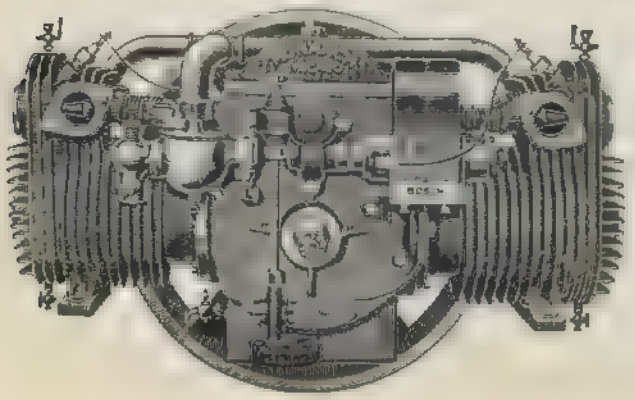
All Sizes and for All Purposes

Mine Locomotives, Road Graders, Drilling Machines, Diggers, Concrete Mixers, Trucks, Street Cars, etc.

Sizes: 3 x 4, 5¼ x 4, 5¼ x 4¾, 5⅜ x 5, 6½ x 7, 7⅜ x 7, 7½ x 8, two-cyl. opposed
4⅛ x 5, 5½ x 5, 6½ x 6, 6⅝ x 7, 7 x 7, 7⅜ x 8, 8 x 7, four-cyl. opposed
2½ x 4, 4 x 4, 4⅛ x 4⅝, 4⅝ x 6⅜, 5 x 6½, four-cyl. vertical.

Davis Manufacturing Co.

15th Avenue and Park Street
MILWAUKEE, WISCONSIN



A COMMERCIAL MOTOR IN EVERY SENSE

(5 x 4¾ Special)

Air and Water-Cooled

The most durable and easily accessible engine of its type made

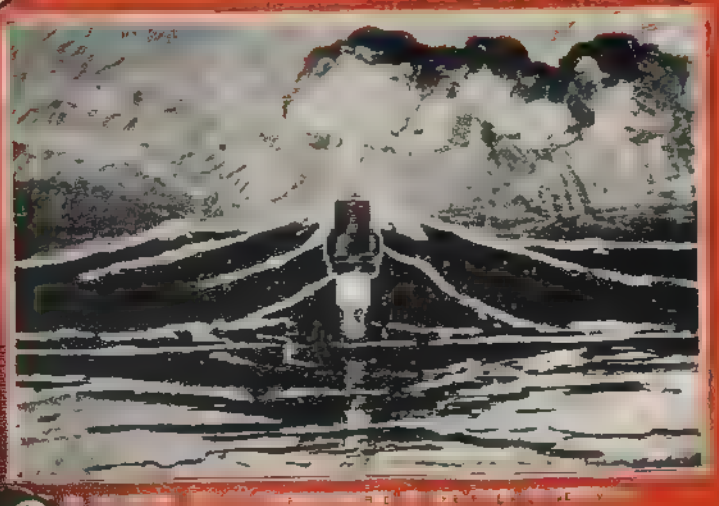
An ideal power plant for a one ton capacity car

Any part or parts of this motor may be removed without disturbing the engine proper

Full details on request

MONARCH MOTOR MFG. CO.
4636 W. Madison Street, Chicago

Mosler Vesuvius Plugs



Insist Upon Mosler

Spit Fire

RED TAG Plugs

Absolutely Gas Tight

Has No Equal For Speed and Power

Can Be Taken Apart Easily And Reassembled Absolutely Gas Tight

The Stone-Insulated Plug Par Excellence

Will Outlast Your Motor

Made to fit any Engine, any Thread

It GUARANTEES Genuine Platinum Point

Energetic Ignition Greater Power

PACKED IN THE BOX STRUNG FOR YOUR PROTECTION

WE CARRY IN STOCK A PLUG FOR EVERY INTERNAL COMBUSTION ENGINE BUILT.

A.R. MOSLER & CO., MT. VERNON, N.Y.

A.R. MOSLER & Co. MT. VERNON, N.Y.

Palmer-Meyer Adds Three-Thousand Pound Truck

STRENGTH in every detail of construction and durability in service are the features of the new 3000-lb. truck which the Palmer-Meyer Motor Car Company, of St. Louis, has added to its 1914 line. The truck was designed by its engineering department and every part has been selected with a view of giving the greatest amount of efficiency in a motor vehicle of its weight.

The New Palmer-Meyer Three-Thousand Lb. Truck.

The motor is a Continental four-cylinder; cast en bloc; L-head type; 4⅛-in. bore, 5¼-in. stroke. The magneto is a Bosch high tension, with variable spark. The Stromberg carburetor is used. The new truck develops a speed of 15 m. p. h. under load. The steering wheel is on the left with the control lever in the center. The spark and throttle levers are on the steering wheel.

The transmission is of the selective type, having three forward speeds and reverse. The clutch is of the multiple disc type Transmission, clutch and steering-gear are of the Warner make. Drive is through chains, having a pitch of 1¼ in., a roller diameter of ⅝ in. and a width of ⅝ in.

The frame is made of five-inch heavy channel, filled with wood and gusseted with heavy corner angles. It is hot-riveted throughout with ⅝-in. rivets. Absolute rigidity of frame is assured.

The front and rear axles and jackshafts are all Timken products, having, of course, Timken bearings throughout. The main shaft has two universal joints well supplied with grease cups which require but one filling a season.

The springs rest on slides, external and internal oiling, and have two large spring bolts in front horns internally greased and working in Tobin bronze bushing. Front springs are 2¼ x 38 in. and rear springs, 2½ x 50 in., both front and rear being half elliptic.

The starting crank and all brake rods are seated in babbitt, assuring perfect fit and alignment. The wheelbase is 130 in., longer to order, and the tread is 58 in. The front wheels are 34 x 4 in. (S. A. E.); the rear wheels 34 x 5 in. (S. A. E.) regular, or 34 x 3½ in. dual block to order.

The splash and force pump lubrication system is used, thus insuring maximum protection from wear. The radiator is of the honeycomb type, set on springs, with circulating pump. Brakes on the jackshaft are external contracting, 12½ x 2½ in. The brakes on the rear wheels expand internally and are 16 x 2¾ in. in dimensions.

The chassis is regularly furnished with priming coat of paint. The front and rear fenders are enameled in black. The standard equipment with the chassis includes two oil dash lights, one oil tail light, one heavy auto jack, set of wrenches and tools and bulb horn.

With a 4 h. p. engine, a motor-driven plow invented in England cuts a 6-in. furrow at a speed in excess of 3 m. p. h.

Changes in Mora Commercial Cars

The Mora Power Wagon Company, of 5320-28 St. Clair Avenue, Cleveland, O., announces a few changes in its Models 24 and 25. The Model 24 is the same as described in our September, 1913, issue, page 203, except that instead of the U section radius rods, a heavy I section rod of cast steel, which lends great strength and rigidity but at the same time imparts remarkable flexibility is used. It pivots at five different places, thereby attaining a universal movement that takes care of all strains from any direction or cause. A quick and positive adjustment at the forward ends of these distance rods provides for taking up any slack caused by the wear of chains.

Another change has been made in the emergency brakes located on the jackshaft. These are now external contracting. There is also an equalizer provided where heretofore the equalizer was found on the service brakes only.

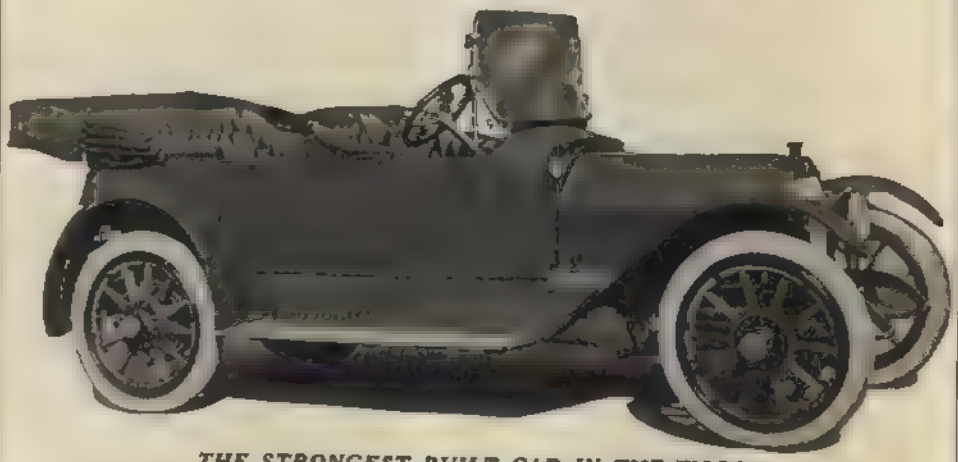
The Model 25 chassis is the same in every respect as the Model 24 with the exception that strong cast steel goose necks are riveted on to the rear end of the frame which lengthens the wheelbase from 115 on the Model 24 to 135 in. on the Model 25. This permits a much longer body than is possible on the Model 24 without any undue overhang and makes an ideal wagon for those lines of trade where the loads carried are bulky but not heavy. Heavier solid tires are also provided on this chassis, these being 36 x 3 in. front and 36 x 3½ in. on the rear wheels. Price of this chassis is $1500.

Mora Model 25 Chassis with Special Body.

Mora Model 24 Chassis with Standard Open Express Body.

PALMER-SINGER

1914 Model K Brighton Six



THE STRONGEST BUILT CAR IN THE WORLD

Mr. Business-Man Dealer:—

Are you the one dealer in your locality who can appreciate a really wonderful, sales-winning car—the dealer who can establish the biggest business for such a car—the dealer who will be in business next year and for many years to come? If so, you are the dealer **we want,** and the Brighton Six is just the car **you want** to represent.

The Palmer-Singer 1914 Model K Brighton Six is the outcome of seven years of six-cylinder experience It is one of the **oldest** new cars on the market—except for several up-to-date refinements, practically the same Brighton Six we brought out over three seasons ago Its success from the first caused us to discontinue all other types and to **double our manufacturing capacity.**

The 1914 Brighton Six represents the acme of satisfaction in real automobile service It is a car with a past, a past of which every dealer may be proud Experience is a most necessary qualification in building six-cylinder cars In these days of almost daily announcements of new sixes, remember that the Palmer-Singer is one of the pioneers in this field, that its success is a matter of record, that here is a car which will sell and stay sold with ever-increasing prestige for the dealer who sells them

Our new selling plan and our contracts are more liberal and favorable to the dealer than any ever written before "Co-operation" is our policy because we know that our interests and our dealers' interests are mutual

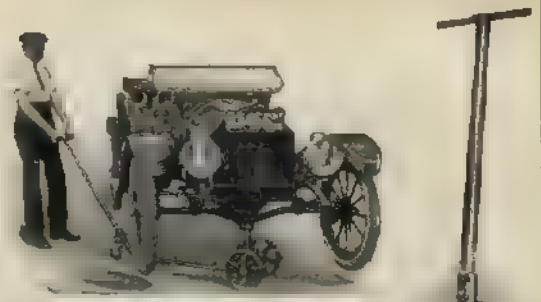
The Palmer-Singer agency is a valuable asset. Is your territory open? Don't delay —write or wire today.

SPECIAL FEATURES:—Sub Dash, carrying all gauges flush; clear Running Boards; Imported Eisemann Magneto, Firestone Demountable Rims, Westinghouse Electric Lighting and Starting System; Eight-day Clock and Electric Horn

Completely Equipped, $2295
Guaranteed 365 Days

PALMER-SINGER MFG. CO., Factory, Long Island City, New York
Chicago Branch, 2838 Michigan Ave.

Pull the long 5½ ft. handle down, causing the Jack wheels to run under the axle past center, raising the front end of car.



The Jack handle will pass under the raised wheel clear back to the foot board if desired.

Save Garage Space and Avoid Congestion

by using the

Auto Turn Jack

"Better Than a Turntable"

Garage space is valuable and labor costly. Anything which enables you to economize on both is a good business investment. That's why so many garages are installing the Auto Turn Jack,—it quickly proves its ability to save them money.

With an **Auto Turn Jack** one man can raise the heaviest car. He can handle nearly any car alone or with its own power.

Cars are quickly and easily moved about to avoid congestion and enables you to economize on floor space so as to use it to the best advantage.

It affords the easiest and quickest way of raising the wheel to fix a tire.

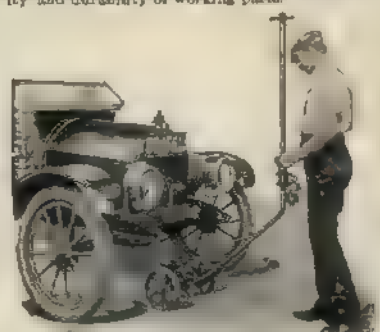
There are so many ways in which it will save money that each day you'll feel it's worth its price to have it.

Price $25.00

Sold at most accessory stores

Other Dealers Are Wanted Write for full details and selling plan.

Bank Section cut away to illustrate the simplicity and durability of working parts.



By lifting up the long handle it tips back and allows the lifting post to get under the lowest axles. Rods or bumpers do not interfere.

One upward movement of the small hand lever raises the lifting post up against any height axle.

PATENTED AND MANUFACTURED BY

RUB-ON MANUFACTURING CO., Inc. 89 Brayton St. Buffalo, N. Y.

3 H. P. GRAY MOTOR with complete outfit $55

A high grade — guaranteed outfit with all fittings — carburetor — timer — coil — wire-propeller — shafting and everything ready to install in your boat.

Also complete line up to 36 H. P. in 1, 2 and 3 cylinder sizes for Canoes — Row Boats — Pleasure Boats — Work Boats — Speed Boats — Large Yachts and Cruisers.

If you are thinking of getting an engine between now and next summer, write us today and get a copy of our Big Engine Book "M."

Gray Motor Company, 1228 G. M. C. Bldg. Detroit, Michigan

The Aluminum Castings Co.

GENERAL OFFICES:
CLEVELAND, OHIO

ALUMINUM, BRASS and BRONZE CASTINGS

PLANTS:
Cleveland Detroit Buffalo
Syracuse New Kensington, Pa.
Fairfield, Conn. Manitowoc, Wis.

OUR guarantee on NEVERLEEK Top Covering is all you could ask and more. It takes any chance of worry off you and puts it on us.

Sole Mfrs.
F. S. Carr Co.
Boston, Mass.

NEVERLEEK TOP COVERING

T. W. WARNER CO.
MUNCIE, INDIANA

TRANSMISSIONS
with either
SIDE or CENTER CONTROLS
STEERING GEARS

Improved Models
Satisfactory Delivery

"STAPLEY" TIRE PUMP

Made by Bridgeport Brass Co.

MOST POWERFUL PUMP ON THE MARKET
INFLATES TIRES QUICKLY AND EASILY
ALWAYS READY
ALWAYS WORKS

BRIDGEPORT BRASS CO.
P. O. Station B. Bridgeport, Conn.

PHINNEY-WALKER KEYLESS CLOCKS

"TURN KNOB TO WIND ONCE A WEEK"

Built to Withstand Automobile Vibration

Handsome in appearance — various models adapted for any car

Send for Catalog today

PHINNEY-WALKER KEYLESS CLOCK CO.
70 E. 130th St. New York City

No. 7 Cowl Clock, $8.00
Other Models, $6.00 to $35.00

You Can Save Hundreds of Dollars

every year on postage bills alone, if you use

CHILTON Advertising Post Cards

IN COLORS

for your follow-up campaigns. Your advertising will be more effective, because everybody will notice your CHILTON POST CARD. We are specialists in this class of printing, and our enormous production guarantees satisfaction. Write us for particulars.

CHILTON CO., Market and 49th Sts., Phila.
(*Post Card Department*)

AUTO LISTS

Alphabetically and numerically. Complete lists to date and new names daily.

ADDRESSING

Card systems of the owners and the trade.
Largest addressograph plant in the world for public business.

AUTO DIRECTORIES
1737 BROADWAY, NEW YORK

A NEW SIX
FOR A NEW MARKET

A car that meets the hitherto unsatisfied demand for a Six that is light in weight, built with standard parts, of extraordinary beauty and serviceability, low in upkeep cost and sold at the right price. Its success has been phenomenal.

5-Passenger Touring, 2-Passenger Roadster or Speedster - - $2485
7-Passenger Touring - - - - - - - - - - - - - - - - $2535
7-Passenger Limousine Berline - - - - - - - - - - - - $3750

These Two Columns Tell the Story of an Unprecedented Success

Specifications

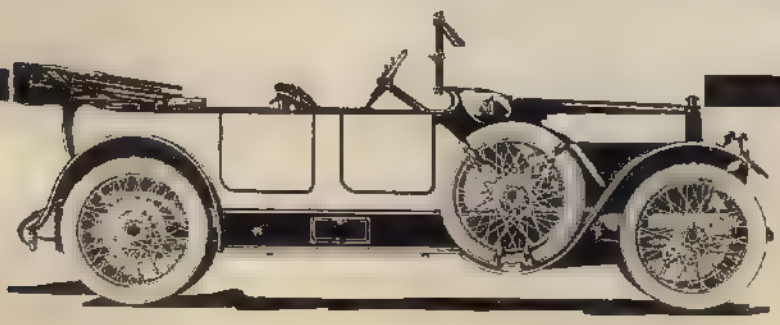
Continental 6-cyl., 3¼" x 5½" Motor
Unit power plant. 3-Point Suspension
Timken Axles
Brown Lipe Selective Transmission
Four Speeds forward and reverse
Gemmer Worm Steering Gear
Mayo Cell Honeycomb Radiator
Front Springs, semi-eliptic, 40" x 2"
Rear Springs, 3-quarter elliptic, 52" x 2"
McCue Wire Wheels
Service Brakes—external contracting
Emergency Brakes—internal expanding
Pressed-Steel Frame
Jesco Electric Lighting and Starting
Rayfield Carburetor
Bosch Dual Ignition
Steel Disc Clutch
Warner Speedometer
Rostand Windshield
34½ x 4 Tires
58-inch Tread
130-inch Wheelbase
Weight, 3250 lbs.

Special Features

Aluminum Hood
Brewster Style Fenders
Easy Starting
Exceptionally Easy Riding
Flexible Clutch
Chrome-Nickel Steel in 14 vital parts
Gasoline Tank in rear, under pressure
Gasoline Gauge shows amount in tank
Golde patent "One-Man" Top
Left-hand Drive
Centre Control
Light Weight, 55 lbs. per H P
Short Turning Radius
Streamline Bodies—low, racy, comfortable
Tool Box in cowl, under windshield
Best Grade Turkish Upholstery
Two Thermos Bottles
Underslung Rear Springs
Klaxon Horn
Extra Wire Wheel
German-Silver Casing on Radiator
Chrome-Nickel Steel Gears
58 H. P. at 2000 R. P. M.

DEALERS: The most casual perusal of these specifications and features will convince any open-minded dealer that here is greater value than was ever before offered at the price. It is a Six any one can sell extensively, for it meets the demand as no other car has done. Will you be the one to handle it in your territory? Write today.

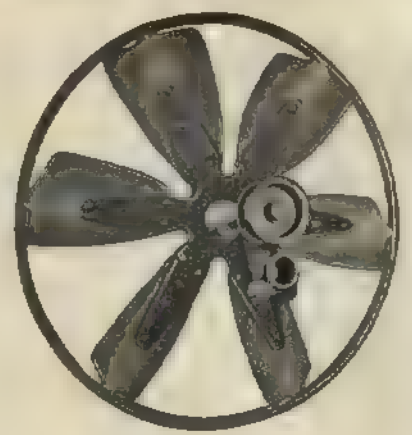
S. & M. MOTOR CO., Inc., Detroit, Michigan



This

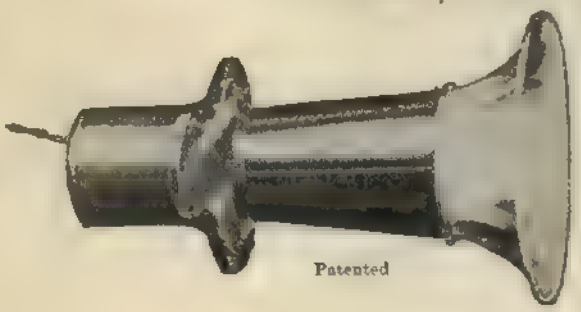
PRESSED STEEL ONE-PIECE BLADE RADIATOR FAN

is now standard equipment on 85% of the automobiles built in the United States



Patented

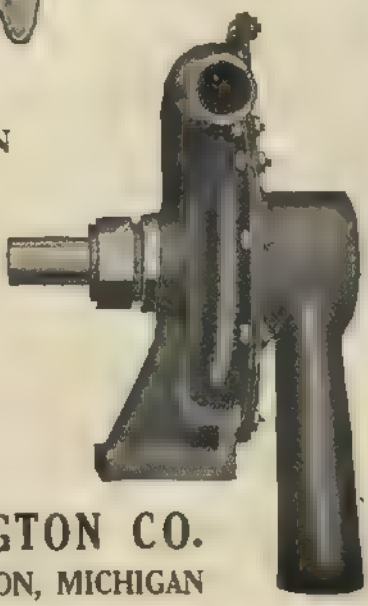
THE SPARTON MOTOR-DRIVEN WARNING SIGNAL



Patented

Nothing better in material, workmanship, or efficiency, and on account of compact manufacturing facilities, the price is most attractive.

THE SPARKS-WITHINGTON PRESSED METAL CENTRIFUGAL PUMP



The very trim and neat appearance of this pump quickly wins favor.

A saving of 40% in weight, with added strength at an advantage in price.

THE SPARKS-WITHINGTON CO.

WALKERVILLE, CANADA JACKSON, MICHIGAN

Splitdorf "Ford Special" Plugs

are a distinct asset to every Ford owner in that they insure against plug trouble.

SPLITDORF PLUGS cost more than many makes of plugs on the market, but they are WORTH MORE and are really the cheapest in the long run.

The highest priced automobile as well as the most popular priced car must have the BEST PLUGS to get the BEST MOTOR EFFICIENCY, and SPLITDORF "COMMON SENSE" PLUGS have always been the standard for effective results.

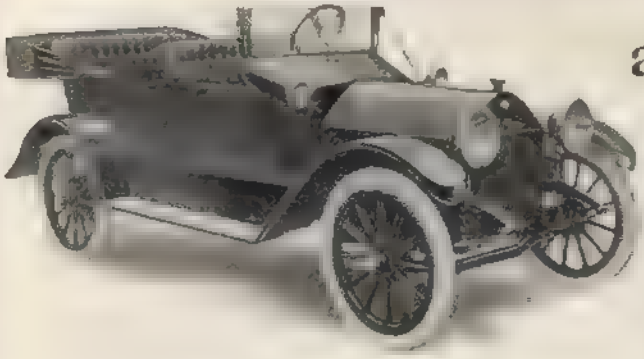
Insist upon SPLITDORF "FORD SPECIAL" PLUGS. Long in body and specially adapted to Ford cylinder construction, they are easily recognized with hexagonal porcelains. Their insulation is high-quality imported mica and they are designed and manufactured to absolutely withstand the breaking-down effects of high-tension current.

Write for "Ford Power Possibilities"—it's FREE

SPLITDORF ELECTRICAL CO.

ATLANTA, 10-12 E Harris St
BOSTON, 180-182 Mass Avenue
CHICAGO, 64-72 E 14th Street
DETROIT, 472 Woodward Ave
KANSAS CITY 1823 Grand Ave
LOS ANGELES 1226 S Olive St
NEWARK, 290 Halsey Street
NEW YORK, 18-20 W. 63d St
PHILADELPHIA, 210-12 N. 13th St
SAN FRANCISCO, 1028 Geary St
SEATTLE WASH 1628 Broadway
LONDON BUENOS AIRES

This Lambert Car at $1200



Is a Real Business Getter

Electric lights and starter
Continental or Rutenber Motor
112" Wheelbase
Lambert Gearless Transmission
Left hand Drive—Center Control
Complete Equipment

A Comparison Proves the Value of this Car

The intrinsic value of any article is easily determined by comparison. This Model 46 Series C Lambert is unusual as compared with any other car in its price class.

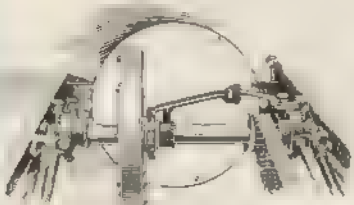
Plenty of room to seat five passengers comfortably—rich, deep upholstery long wheel base electric lights and starter Lambert Patented Gearless Transmission and so far as the motor is concerned—take your choice of those two known favorably the world over—the Continental or Rutenber.

And the price is $1200.

The big Lambert organization—big machine shops—skilled mechanics—real knowledge of manufacturing, has made it possible.

It's worth while to know more about this car.

This Simple Gearless Transmission



—eliminates the expensive, clumsy, unmechanical, racket-producing gearset, which, having reached the limit of its development, is still far from perfect. The present tendency to pile on so-called improvements on the sliding-gear transmission in the form of electric and pneumatic speed-changing devices only affords greater proof of its weakness.

The Lambert Gearless Drive eliminates all this complication and expense—gives you maximum service at minimum cost

The Specifications of this Car Include

Continental or Rutenber motor, Lambert patented gearless transmission, Electric lights and starter, Rayfield carburetor, Timken bearings throughout, Rear springs, Richardson spring, 112" wheelbase, Irving Morgan tires all around, Left drive, Center control, Wide seats, Deep upholstery, Long wheel base, Complete equipment in every way required to make a complete car for touring and the price is $1200

THE BUCKEYE MANUFACTURING CO.

555 Columbus Avenue, Anderson, Indiana

Overland

$950

Completely Equipped

With electric starter and generator — $1075. Prices f. o. b. Toledo

Electric head, side and tail lights
Storage battery and Ammeter
35 horsepower motor
114-inch wheelbase

Timken bearings
33 x 4 Q. D. Tires
Cowl dash
Brewster green body with light green striping, nickel and aluminum trimmings

Mohair top and boot
Clear vision windshield
Stewart speedometer
Electric horn
Four doors with concealed hinges

A larger percentage of our 1914 output will go to farmers than from any other factory in the world.

This is the strongest guarantee one can have of Overland sturdiness, staunchness and genuine wearing value.

The farmer is the man who buys for mechanical merit.

Literature on ... Please address Dept. ...

The Willys-Overland Company
Toledo, Ohio, U. S. A.

Manufacturers of ... Willys-Utility trucks.

Full information on request

Does the Maker Know What He is Doing?

IS he making six-cylinder cars because he **knows how**, or only because the demand created by another maker's six has forced him to it?

Is he selling his car on the strength of its equipment, or on the proved merit of the car itself?

Success or Experiment?

Is he equipping an intricate and doubtful self-starter that may cause you a lot of trouble, or is he using one that has years of success to its credit?

Does he flop about from one type of car, one size, one price, to another as fast as the seasons change, or has he shown, by consistently producing some one standard car, that he has an established policy and a successful product?

Is He Here to Stay?

Is his credit good, enabling him to command the best materials and the best equipment on the market, or must he buy only where sellers are willing to take a risk on him?

Is his financial standing sound, so that you may rely upon his guarantee and his promise of service, or is he likely to be out of business within a month after you buy his car?

WINTON SIX

Long stroke motor, left drive, center control, electric lights, self-starter, finest mohair top, easily handled curtains, rain-vision glass front, best Warner speedometer, Waltham eight-day clock, Klaxon electric horn, rear tire carriers, four-cylinder tire pump, demountable rims, full set of tools, German-silver radiator, metal parts nickel finished. Fully equipped, **$3250**

Every Buyer Ought to Know

These are fair, square, necessary questions. Every car buyer, who seeks the best car he can afford to buy, ought to get the right answers to these questions before he spends his money.

Don't trust to mere reputation or seeming success. Remember that the past year has seen the failure of more than 25 makers who had reputations.

You Need This Book

No car buyer wants to buy a loser. Avoid it by getting the facts. Our booklet on present conditions in the automobile industry will help you to know something about the situation. Ask for Book No. 32. We'll send catalog also.

The Winton Motor Car Co.

417 Berea Road, Cleveland, O.

The Woods Electric is Supreme in Real Service

Owners of Woods Electrics don't know what trouble means. They think as little about the mechanism of their cars as a healthy boy thinks about his stomach. All he knows is that it "works" unfailingly. That's what a Woods Electric does. You forget the car as a piece of machinery. You just go—ride—wherever you want to and whenever you want to.

The Woods Electric proves that **you don't need pneumatic tires on an electric** to have a comfortable riding car. It rides easier on solid, punctureless tires than any other electric on pneumatic tires. Woods special springs, made exclusively in the Woods factory, are the reason.

We want, as representatives, dealers of standing and ability. We can show you big profits in Woods Electrics, handled alone or in connection with high-grade gas cars.

Let us send you the proof, both of the quality in Woods Electrics and the profit to the live dealer who sells them.

Woods Motor Vehicle Company

Chicago, Ill.

A New Brunner Air Compressor

for the Service Station and Large Garage

Where High Pressure and Large Volume are Essential

B R U N N E R

The New No. 47 Brunner Air Compressor

B R U N N E R

Designed and built especially for Service Station and Large Garage use, by practical compressed air engineers who have made a careful study of the garageman's requirements for years, and guaranteed to "stand up" and "deliver the goods." **Speed, 285 R. P. M.; capacity, 7 cubic feet per minute;** cylinders, 3" x 3"; water-cooled cylinders and cylinder heads; splash-feed oiling system; steel crank shaft; extra long bronze bearings; solid bronze connecting rod; geared to a 2 h. p. A. C. or D. C. motor by means of a heavy rimmed spur gear and a rawhide pinion. Height, 22"; floor space, 22" x 25"; shipping weight, 410 lbs. Also furnished with 16" heavy-rimmed flywheel pulleys for belt drive and for 6 to 12 cubic feet per minute—225 lbs.

BUILT FOR LONG SERVICE GENEROUSLY WELL CONSTRUCTED
GET ACQUAINTED WITH OUR LINE

We build an air compressor outfit suited to every possible garage requirement, and we supply everything but the iron piping

YOU WILL FIND THE SUPPLY DEALER RELIABLE WHO CATALOGS OUR LINE; HE IS A GOOD MAN TO KNOW. IF YOUR JOBBER CAN'T SUPPLY YOU, WRITE US DIRECT

BRUNNER MANUFACTURING CO.

Hudson Terminal Building,

Main Office and Factory: UTICA, N. Y. 30 CHURCH ST., NEW YORK CITY

KOEHLER $750 ONE TON TRUCK

One Chassis—Ten Bodies

That is a combination which means many sales and good profits to the dealer who vigorously goes after the one-ton truck business.

Only one chassis means a light investment for the dealer, as he does not have to stock up with a number of different models. Ten types of bodies means he has something to offer every man who has a light delivery problem.

W[illegible] this you add the fact that the price is unprecedented for a truck of this capacity, being but half the usual price, you have a combination that is bound to bring a steady stream of dollars to your coffers.

It's no wonder Koehler dealers are prosperous! There's every reason why they should be. They have a big field to work in, a truck of known quality, a price that makes competition a joke, an economy of operation that effects real savings, a capacity and efficiency that make horse-drawn vehicles obsolete.

The "Koehler" enables an aggressive dealer to sweep the field. Do you want to be the king money-making dealer in your town? If so, write us to-day

Brief Specifications

MOTOR [illegible] H. P. water cooled, four-cycle.
CARBURETOR [illegible]
IGNITION [illegible] Magneto.
LUBRICATION [illegible] Positive, mechanical and integral.
TIRES [illegible] Standard Removable.
WHEELBASE [illegible] inches.
TREAD [illegible] inches.
AXLES [illegible] square rear, [illegible] front.
TRANSMISSION Proved RIGHT by years of use. Gears, genuine chrome nickel, runs in oil bath very strong and simple—runs at one-half engine speed, thereby increasing length of life.

Body Types

OPEN Panel Board Type	$ 750
Express Type [illegible] (as illustrated)	750
Canopy Top Type	800
Stake-Side Body	750
All above 7 feet back of driver's seat x 44 inches wide	
Panel Type—full panel, very substantial	900
Plumbers' and Contractors' Body	800
Very strongly built, 8 feet back of driver's seat.	
Bakers' and Confectioners' Body Type	925
Furniture Body Type, body 9 feet x 50 inches	850
Stage or 'Bus Body Type, capacity 12 passengers	1000
Cab Front or Top	$25.00
Top for Driver's seat	15.00

Prices, F. O. B. Factory.

H. J. KOEHLER S. G. CO. 1709 Broadway, New York, N. Y.

The Best One-Ton Truck on the Market

for

$500 Down

A business proposition that appeals to any man who desires an up-to-date delivery service.

The Selden Truck

embodies only the best ideas and most practical features of truck construction. Sturdy and reliable. Easy to handle. Economical to operate. It furnishes a delivery service you can depend upon in all kinds of weather over all sorts of roads.

THE SELDEN SALES PLAN

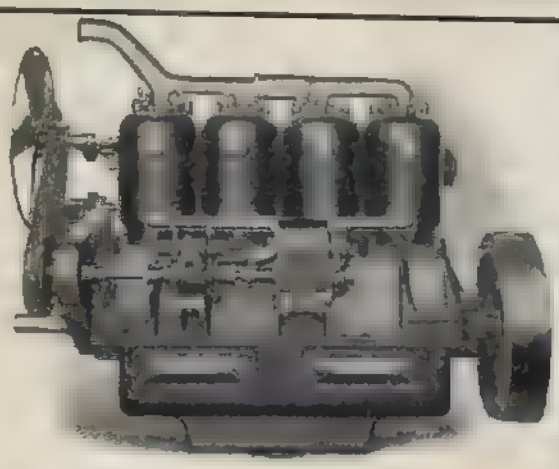
enables any business house to put the Selden $2000 Truck in service upon the payment of $500. Then the Truck earns the monthly payments.

Many users are buying additional Selden Trucks to take care of the business created by the increased scope of their delivery service.

Agents with the right kind of sales and service facilities wanted

Selden Truck Sales Company

227 East Avenue *Pioneers in Selling Trucks on Time* Rochester, N. Y.



Model MOTORS

Try a real truck motor in that heavy truck. A motor built especially for trucks from two to ten ton capacity, five-bearing crank shaft, cast-iron upper and lower case, water jacket large enough.

Sizes: 4 x 6, 4½ x 6, 5 x 6, 5 x 7, 5½ x 7

Also complete line of 4 and 6-cylinder motors and unit power plants for automobiles and smaller trucks. Write for information.

MODEL GAS ENGINE WORKS

PERU, IND.

MOSSBERG

MOSSBERG WRENCH SETS

MOSSBERG WRENCHES

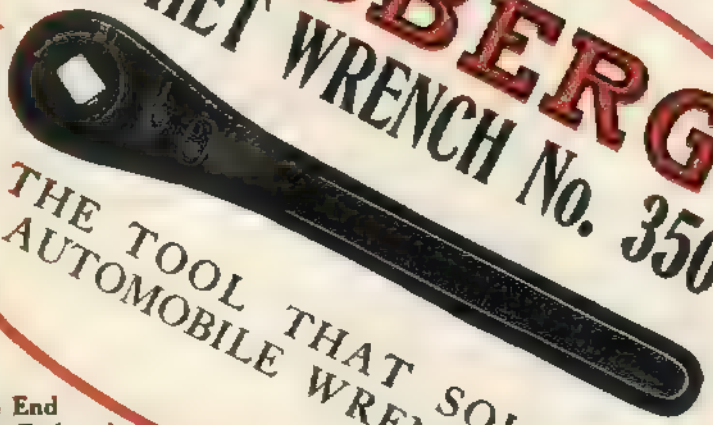
No. 14 SOCKET WRENCH SET

MOST COMPLETE WRENCH SET MADE

Fully Guaranteed

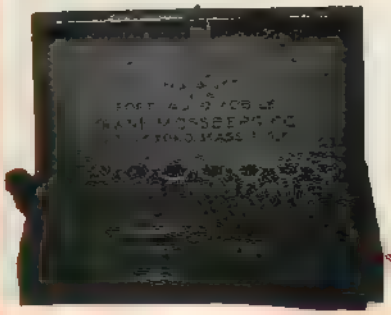
MOSSBERG RATCHET WRENCH No. 350

THE TOOL THAT SOLVED THE AUTOMOBILE WRENCH PROBLEM



Single End
Double End and
Adjustable
Wrenches
for all purposes

Write for
Catalogue 159



No. 15 SOCKET SET

FOR USE WITH FORD CARS

FRANK MOSSBERG CO.

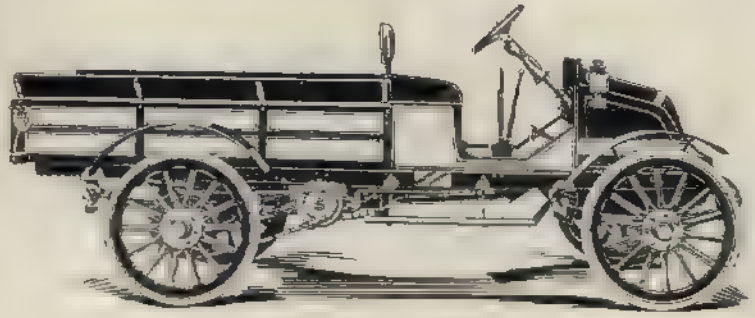
ATTLEBORO. MASS.

PALMER MOORE

SERVICE DEPENDABILITY TRUCKS

ATTENTION—LIVE DEALERS

PALMER-MOORE TRUCKS



STANDARD EXPRESS
Capacity, 1600 lbs. Price, $1275

THE PALMER-MOORE is the truck the live dealer has been waiting for. Here is a truck bristling with good, strong talking points—a truck whose appearance pleases the eye of the purchaser and whose record for dependable service makes it the final choice of the discriminating business man.

Look at the sturdy, well-balanced construction. There is strength in every part and class in every line. Simplicity is the secret of its mechanical efficiency.

We are looking for aggressive dealers everywhere —the kind that know a dependable truck when they see it, and who appreciate good will and service on the part of the manufacturer.

Standard Express, Stake,
Four-Post and Panel Bodies
Special Bodies to Order

Write for further information

PALMER-MOORE COMPANY
SYRACUSE, NEW YORK

Kearns Motor Trucks on Profit-Sharing Plan

The Kearns Truck Builders, of Beavertown, Pa., and New York, N. Y., manufacturers of delivery wagons used in all lines of business, have evolved a plan whereby each employee, agent and representative takes stock in the company. The plan shows an advance in the co-operation of employer and employee that the present day demands. The plan merits more than a passing thought; its advantages are many, in that it perfects the article at less cost, and stimulates and maintains permanent harmony in the organization as well as eliminating many of the higher salaried so-called "bosses."

New Adams Contractors' Truck

The Adams Brothers Company, Findlay, O., has added a new model to its line. This model is to be known as Model F, and has been designed for contractors' use.

As here illustrated, the truck is fitted with bottom dump body, which has a capacity of a yard and a half of material. This body is intended for hauling crushed stone, sand, coal, etc. When it is necessary to haul other materials, the dumping body can be quickly removed and a stake platform body, or any other, substituted in its place. This enables the user to keep the truck busy at all times. The body dumps by gravity, the body remaining stationary. It is operated by a set of hand levers located at the left of the driver's seat. It is claimed that the driver can discharge the load, close the chute and drive on in a minute's time.

A farmer in northern Wisconsin has put his motor car to a novel use, that of clearing a piece of land of stumps. The necessary tools and dynamite were loaded into the car and taken to the distant field. The holes were then drilled for the dynamite sticks and the charges put in and wired. The farmer showed considerable ingenuity, for he wired several stumps in connection, to be fired simultaneously. His resourcefulness did not end here, however; he then used the dry cells in the car for the source of the necessary electricity to fire the blasts. Much time is saved and practically all danger is eliminated by this method of blasting, and great headway made in clearing the land.

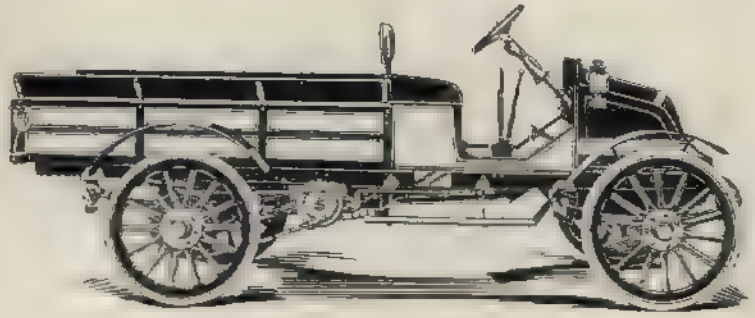
New Adams Model "F" Truck.
The body dumps through the bottom and is operated by a hand lever located at the left of the driver

PALMER MOORE

SERVICE DEPENDABILITY TRUCKS

ATTENTION—LIVE DEALERS

PALMER-MOORE TRUCKS



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Look at the sturdy, well-balanced construction. There is strength in every part and class in every line. Simplicity is the secret of its mechanical efficiency.

We are looking for aggressive dealers everywhere —the kind that know a dependable truck when they see it, and who appreciate good will and service on the part of the manufacturer.

Standard Express, Stake,
Four-Post and Panel Bodies
Special Bodies to Order

Write for further information

PALMER-MOORE COMPANY
SYRACUSE, NEW YORK

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The Adams Brothers Company, Findlay, O., has added a new model to its line. This model is to be known as Model F, and has been designed for contractors' use.

As here illustrated, the truck is fitted with bottom dump body, which has a capacity of a yard and a half of material. This body is intended for hauling crushed stone, sand, coal, etc. When it is necessary to haul other materials, the dumping body can be quickly removed and a stake platform body, or any other, substituted in its place. This enables the user to keep the truck busy at all times. The body dumps by gravity, the body remaining stationary. It is operated by a set of hand levers located at the left of the driver's seat. It is claimed that the driver can discharge the load, close the chute and drive on in a minute's time.

A farmer in northern Wisconsin has put his motor car to a novel use, that of clearing a piece of land of stumps. The necessary tools and dynamite were loaded into the car and taken to the distant field. The holes were then drilled for the dynamite sticks and the charges put in and wired. The farmer showed considerable ingenuity, for he wired several stumps in connection, to be fired simultaneously. His resourcefulness did not end here, however; he then used the dry cells in the car for the source of the necessary electricity to fire the blasts. Much time is saved and practically all danger is eliminated by this method of blasting, and great headway made in clearing the land.

New Adams Model "F" Truck.
The body dumps through the bottom and is operated by a hand lever located at the left of the driver

DOUBLE BARREL HAMMERLESS GUNS

*CENTRAL ARMS CO.

MADE IN U S A

The New Model King Nitro Hammerless Double Gun we offer with full confidence that it is unsurpassed by any similar priced Gun on the market for good Value Quality Reliability Style Fitting and Finish

...one of the best shooting guns ... Combines ... in many novel Features ... simplicity ... Mechanism ... in general lines of appearance ... Handsome ... and pleasing ... have what the ... control ... and mistaken ... than ... needs to beat ... quick and easy handling

*King Nitro

(Registered)

SPECIFICATIONS

Barrels —Special Rolled Nitro Steel of High Grade and Tried Quality Bored and Finished by the same Process Machinery and Mechanical Skill as those of much higher Priced Guns

Rib —Flat and Fully Matted, Drop Forged Lug and Extension and Rib are all Incorporated into the construction of the Barrels in the best possible manner

Boring —The Choke is formed by Taper Borings (which leaves an extra Thickness of Metal) instead of Swaging

Action The Frame and all the larger Action Parts are Drop Forged, Closely Milled and Fitted Extremely Simple Mechanism, comprising only the Hammers Coil Main and Top Lever Springs Sears, Triggers and Firing Pins The Hammers Cocking Rods and Main Springs are contained in small spaces in the Frame and are held in position by Screw or Axles which are easily removable, and new parts if necessary may readily be fitted without the services of a Gunsmith

Separate Firing Pins reduce the possibility of breakage to a Minimum and these can be replaced without the expense of complete new Hammers as is necessary where the Firing Pin is formed on the point of the Hammer

The Hammers are Large Strong and have a quick powerful throw and are engaged at the top farthest away from the Pivots by the over hanging Sears which are Coil Tempered Springs in themselves thus doing away with the separate Sear Spring All Springs are made from special Stock and are practically Non Breakable

The Cocking Rods passing through the Frame are engaged by Hardened Plugs set into the Front Circle cocking the Hammer smoothly and easily by the Rotary Action of the Hinge when breaking down the Barrels Around these Rods the Coiled Main Springs are placed and the Back Ends of the Rods bear into the Hammers pulling them down forcibly and instantly when released by the Triggers

Stock —Selected American Walnut, Oiled and Varnished Half Pistol Grip Checkered Rubber Butt Plate

Fore End —Patent Snap, Self Compensating Nicely Checkered and Finished

	Each
No. 7513—12 Gauge: 30 and 32 Inch Barrels, Weight 7¼ to 8¼ lbs	$27 50
No. 7516—16 Gauge, 28 and 30 Inch Barrels, Weight 6¼ to 7½ lbs	27 50

One in a Box Ten in a Case

"DIAMOND EDGE IS A QUALITY PLEDGE"

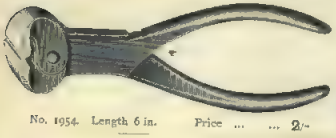
Melhuish Nippers for cutting very hard wire.

Gauge Glass Cutter. No. 1953.

This has a graduated beam, 6½ in. long, and is supplied with stop that can be set at any desired point.

Price ... ... 3/9 each.

For other patterns see Index.

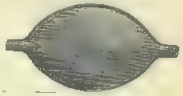


No. 1954. Length 6 in. Price 2/-

Gas Engine Bags.

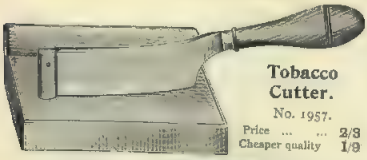
No. 1955.

	6	7	8	9	10	12 in
Price	3/6	4/6	5/-	6/6	7/6	9/- ea.



All Steel Bearing Scraper. No. 1956.

Length 10½ in. Price ... 1/6



Tobacco Cutter.

No. 1957.

Price 2/3

Cheaper quality 1/9

Stud Extractor.

Size	1	2	3	4
Range	3/16–5/8	5/16–7/8	1–1 3/8	1 1/4–2 in.
Price ...	21/-	30/-	39/-	69/-

Nos. 1 and 2. In wood case ... 59/-

Nos. 1, 2 and 3. „ „ „ ... 115 -

No. 1958

Centrifugal Drill for Jewellers.

No. 1959.

All Metal, with 2 Brass Springs. Price 3 6

Seamless Steel Paraffin or Naphtha Lamp

No 1960.

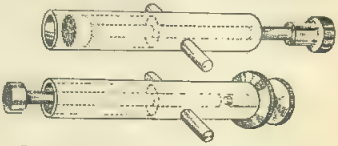
For Builders and Contractors.

4 pint capacity ... 5/9

6 „ 6/9

Filing Tool for Trembler Contacts.

The file can be used in six different ways and any size of trembler blade or screw can easily be trimmed without trouble



Price ... ... 2/- No 1961

Lead Jaws for Vices. No. 1963.

For holding delicate articles.

Width	⅜	½	¾	1 in.
Price	1/3	1/6	1/9	2/- per pair.

Motor Repair Outfit. No. 1962.

This box contains everything in the way of jointing material that can possibly be required by the motorist. Whether the car is English or foreign, the wherewithal to make a thoroughly effective joint will be found in the Motor Joint Box. Every article it contains is the best of its kind, of suitable and the selection is the result of a very wide experience in joint making guided by the combined wisdom of many practical motorists. A leaflet containing valuable suggestions as to the selection of suitable material for every conceivable form of washer is contained in the Motor Joint Box. Price 5 -

Contractors to the Home, Indian, and Colonial Governments.

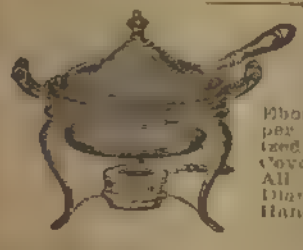
CHAFING DISHES.

BURNS ALCOHOL

NICKEL PLATED BRASS Stand with Fancy Ornamental Legs; Brass Water Pan, with Ebonized Wood Side Handles; Copper Food Pan, with 7 in. Ebonized Wood Handle; Brass Dome Cover with Ebonized Wood Knob; Nickel Plated Brass Alcohol Lamp 3½ in. in Diameter, with Ebonized Wood Handle.

Each

No. 151 Capacity 3 Pints; Diameter of Stand 9¼ in.; Water Pan 2¾x9¼ in.; Food Pan 2½x9¼ in.; Height over all 11¾ in.; Weight each about 6½ lbs. $12.00



POLISHED COPPER Solid Brass Stand with Polished Copper Feet; All Copper Water Pan, Silver Lined, with Brass Handles and Ebonized Wood Grips, All Copper Food Pan, with 6½ in. Ebonized Wood Handle, All Copper Cover, with Ebonized Wood Knob; All Brass Alcohol Lamp, 3½ in. Diameter, with Ebonized Wood Handle.

Each

No. 850—Capacity 3 Pints; Diameter of Stand 3½ in. [illegible] x9½ in.; Height [illegible] about 6¾ lbs. $10.00

NICKEL [illegible] Brass Stand, Brass Water Pan, Silver Lined, with Ebonized Wood Side Handles, Copper [illegible] Silver Lined, with Ebonized Wood Handle, Brass Dome Cover, with Beaded Ornamentation and Ebonized Wood Knob, Nickel Plated Brass Lamp, 3½ in. Diameter, with Ebonized Wood Handle.

Each

No. 1013—Capacity 3 Pints, Diameter of Stand 9¼ in., Height 6 in.; Water Pan 2⅝x9¼ in.; Food Pan 2½x9¼ in.; Height over all 10½ in.; Weight each about 6¾ lbs. $10.00

NICKEL PLATED Brass Stand; Brass Water Pan, Silver Lined, Nickel Wood Side Handles, Copper Food Pan Silver Lined, with 6½ in. Ebonized Wood Handle, Brass Dome Cover with Ebonized Wood Knob, Nickel Plated Brass Lamp 3½ in. Diameter, with Ebonized Wood Handle.

Each

No. 1007 [illegible] Height 6 in.; Water Pan 2⅝x9 in.; Food Pan 2½x9¼ in.; Height over all 10½ in.; Weight each about 6½ lbs. $9.50

NICKEL PLATED; Brass Stand and Water Pan, Copper Food Pan, Silver Lined with 7 in. Ebonized Wood Handle, Brass Dome Cover with Ebonized Wood Knob; Brass Asbestos Force Draft Lamp, 3¼ in. Diameter, with Ebonized Wood Handle.

Each

No. 953 Capacity 3 Pints; Diameter of Stand 9 in. [illegible] 6 in.; Water Pan 2⅝x9 in.; Food Pan 2½x9¼ in.; Height over all 11 in.; Weight each about [illegible]

One in a Cardboard Box.

DIRECTIONS FOR USING LAMPS WILL BE FOUND ON TAG FASTENED TO LAMP.

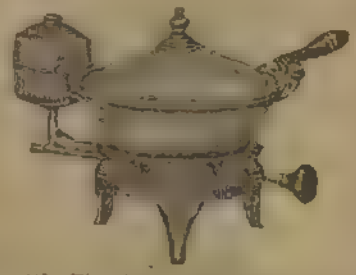
CHAFING DISHES.

BURNS ALCOHOL

WROUGHT IRON STAND [illegible] in. Bars, Black Finish; Nickel Plated Dish and Lamp; Brass Water Pan; Copper Food Pan, with 6 in. Black Rubberoid Handle, Brass Oval Cover, with Black Rubberoid Knob; Brass Asbestos Force Draft Lamp 3½ in. in Diameter, with Black Rubberoid Handle.

Each

No. 92—Capacity 2 Pints; Diameter of Stand 7¼ in. [illegible] 7¼ in.; Water Pan 2⅛x7⅜ in.; Food Pan [illegible] x8 in., Height over all 10 in.; Weight each about 5½ lbs. $5.40



NICKEL PLATED.

STAMPED STEEL STAND and Feet, Securely Riveted; Brass Nickel Plated Alcohol Tank Capacity 1½ Pints, with Threaded Filler Cap; Fitted with Patent Alcohol Burner with Threaded [illegible] Valve [illegible] Wood Knob, Complete with Chafing Dish, Consisting of Nickel Plated Brass Hot Water Pan with Ebonized Wood Side Handles, and 3 Pint Copper Food Pan with 2¾ in. Ebonized Wood Handle, Fitted with Nickel Plated Brass Dome Cover with Ebonized Wood Knob.

Each

No. 452—Capacity 3 Pints; Diameter of Stand 8 in. Height 5 in.; Water Pan 3x9 in.; Food Pan 2½x9 in.; Height over all 11 in.; Weight each about 10 lbs. $14.00

Packed Loose.

CHAFING DISH STOVES.

FOR ALCOHOL

NICKEL PLATED STAMPED Steel Stand and Feet, Securely Riveted Diameter 6 in., Height [illegible] Nickel Plated Brass Alcohol Tank, Capacity 1¼ Pints with Threaded Filler Cap; Fitted with Patent Alcohol Burner with Threaded Shut-off Valve with Ebonized Wood Knob; Height over all 11 in. [illegible]

No. 52 Weight each about 5 lbs. $6.00

One in a Cardboard Box.

DIRECTIONS FOR USING LAMPS WILL BE FOUND ON TAG FASTENED TO LAMP.

HOT WATER URNS.

Made of 14-oz. Polished Copper, with Beaded Top Rim, Soldered Handles; Dome Slope Cover, with Black Enamel Wood Knob; Complete with Threaded Brass Lever Faucet

No.	1008	1010
Capacity, quarts	[illegible]	[illegible]
Diameter, inches	[illegible]	[illegible]
Height, inches	[illegible]	[illegible]
Weight each about, lbs.	[illegible]	[illegible]
Each	$1.20	1.80

Packed Loose, Securely Wrapped

ALCOHOL FLAGONS.

Tight Fitting Cover, with Metal Knob; Fitted with Patent Vent Tube; Pours only when Knob is Pressed Down; Will not allow contents to evaporate

All Copper, Nickel Plated, Seamed Bottom, Soldered Beat Spout, with Tight Fitting Cap and Chain Soldered Handle.

Each

No. 72 Capacity Half Pint; Diameter at Bottom 2½ in. Height 5 in.; Length of Spout 4¼ in.; Weight each about 1 lb. $5.40

[illegible] Packed

CHAFING DISHES.

BURNS ALCOHOL.

CAST METAL STAND and Legs; Diameter 8¼ in.; Height 7½ in.; Solid Copper Water Pan 8¾ in.; Solid Copper Food Pan 9¼ in.; Solid Copper Fluted Pattern Cover; Equipped with Universal Hot Blow Flame Alcohol Lamp, with Ratchet Burner and Blaze Regulating Tube, fitted with Combination Filler Cap and Alcohol Pump for Generating; Each Burner furnished with Screw Cap to prevent Evaporating; Food Pan and Covers Heavily Tinned on Inside and Silver Plated. Bottom of Food Pan Rests on Lugs, leaving a Small Opening at Cover Rim, which properly allows the escape of Steam and Prevents Boiling over.

Water Pan has Stag Horn Handles. Food Pan has 8 in. Fancy Stag Horn Handle, Mounted with Sterling Silver Cap. Cover with Stag Horn Knob; Height over all 11¾ in.

Each

No. 0103N—Capacity 3 Pints; Weight each about 14¼ lbs. $10.00

UNIVERSAL.

Fancy Legs and Stand; Water Pan has Non-heating Ebonwood Side Handles; Food Pan has 8 in. Non-heating Ebonwood Handle. Cover with Ebonwood Knob; Height over all 11½ in.

NICKEL PLATED—CORINTHIAN DESIGN

Each

No. 700N—Capacity 3 Pints. Weight each about 15 lbs. $16.00

UNIVERSAL.

Water Pan has Non-heating Ebonwood Side Handles; Food Pan has 8 in. Non-heating Ebonwood Handle. Cover with Ebonwood Knob. Height over all 11½ in.

Each

No. 400N—NICKEL PLATED; Capacity 3 Pints.... $16.00

No. 400/C—POLISHED COPPER FINISH; Capacity 3 Pints 16.00

One in a Wood Box. Weight Each about 14¼ lbs.

NICKEL PLATED; Brass Stand; Brass Water Pan, Silver Lined, with Mahogany Stained Wood Handles. Copper Food Pan, Silver Lined, with 7½ in. Mahogany Stained Wood Handle; Brass Dome Cover with Mahogany Stained Wood Knob; Brass Alcohol Lamp with Ratchet Burner.

Each

No. 369—Capacity 3 Pints; Diameter of Stand 8¾ in., Height 6 in.; Water Pan 2½x9 in.; Food Pan 2¼x9½ in.; Height over all 11¼ in.; Weight each about 7 lbs. $17.50

One in a Cardboard Box

CHAFING DISHES.

BURNS ALCOHOL.

NICKEL PLATED COPPER STAND, Beaded; Copper Water Pan, with Black Ebonized Wood Side Handles. Copper Food Pan, with 7 in. Black Ebonized Wood Handle; Colonial Shaped Cover with Beaded Ornamentations and Black Ebonized Wood Knob; Nickel Plated Copper Lamp. Diameter 3½ in., with Automatic Blaze Regulator and Black Ebonized Wood Thumb Ratchet.

Each

No. 722—Capacity 3 Pints; Diameter of Stand 9 in.; Height 7 in.; Water Pan 2¾x8½ in.; Food Pan 3x9½ in.; Height over all 13 in.; Weight each about 7½ lbs. $15.50

One in a Cardboard Box, Securely Wrapped.

NICKEL PLATED BRASS STAND; Brass Water Pan, with Stag Horn Side Handles; Copper Food Pan, Silver Lined, with 7 in. Stag Horn Handle; Brass Dome Cover; Panel Design, with Beaded Ornamentation and Stag Horn Knob, Copper Alcohol Lamp, 3½ in. Diameter with Stag Horn Handle.

Each

No. 1073—Capacity 3 Pints; Diameter of Stand 9¼ in.; Height 6¾ in.; Water Pan 2¾x9 in.; Food Pan [illegible] in. Height over all 12 in.; Weight each about 7 lbs. $15.00

NICKEL PLATED BRASS STAND; Brass Water Pan, with Stag Horn Side Handles; Copper Food Pan, Silver Lined, with 6¾ in. Stag Horn Handle; Brass Dome Cover, with Fancy Edge Fitted with Stag Horn Knob; Brass Vapor Lamp 3¼ in. Diameter, Ratchet Burner with Stag Horn Button and Blaze Regulating Tube, Fitted with Screw Cap to Prevent Evaporating

Each

No. 33—Capacity 3 Pints; Diameter of Stand 8¾ in., Height 6¾ in.; Water Pan 2¾x8½ in., Food Pan 2¼x8½ in.; Height over all 11½ in.; Weight each about 8 lbs. $14.00

POLISHED COPPER STAND, with Fancy Embossed Trimmings, Flared Copper Water Pan, with Black Ebonized Wood Handles; Copper Food Pan, with 7 in. Black Ebonized Wood Handle; Fancy Embossed Dome Cover, with Black Ebonized Wood Knob; Copper Lamp 3½ in. in Diameter with Automatic Blaze Regulator and Black Ebonized Wood Thumb Ratchet.

Each

No. 349—Capacity 3 Pints. Diameter of Stand 6 in.; Height 6 in.; Water Pan 3½x9½ in.; Food Pan 3x9½ in.; Height over all 13½ in.; Weight each about 7½ lbs. $14.50

One in a Cardboard Box

DIRECTIONS FOR USING LAMPS WILL BE FOUND ON TAG FASTENED TO LAMP

TELESCOPES AND BAROMETERS

SIMILAR TO CUT

Morocco Covered Body. Three Brass Slides. Brass Caps to Protect Object Lens, with Sliding Cap to Protect Eye Piece.

	Object Lens.	Length Closed.	Length Open.	Power	No. of Draws.	Each
No. 9573.	19 Lign	9⅜ inches	18⅝ inches	10 Diams.	3	$4.00
No. 9574.	12 Lign	8¾ inches	18¾ inches	12 Diams.	3	5.00
No. 9575.	14 Lign	7 inches	18⅝ inches	16 Diams.	4	6.00
No. 9576.	16 Lign	5½ inches	23¾ inches	20 Diams.	4	8.50
No. 9577.	19 Lign	10½ inches	30½ inches	25 Diams.	5	9.50
No. 9578.	22 Lign	11 inches	36½ inches	30 Diams.	6	16.00

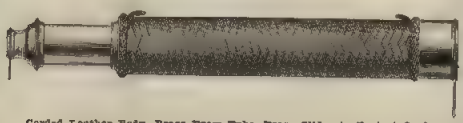
RIFLE RANGE TELESCOPE

No. 9579. Black Calf Leather Body, Oxidized Metal Trimmings, with Leather Covered Sunshades, Leather Caps and Straps. Lens diameter, 22 lignæ; lengths when closed, 11 inches; when extended, 56 inches. Power, 33 diameters. Warranted to show in a clear atmosphere a bullet mark at 1,000 yards ..... each, $40.00

WEATHER BAROMETER.

No. 9581, $1.50
Fancy Dark Wood, Rustic Base.
Size, 6½ x 4½.
In good weather lady appears,
In bad weather man appears.

DRAW TELESCOPE



Corded Leather Body, Brass Draw Tube, Brass Slides to Protect Ocular and Objective Lenses.

No. 9580, 20 Power 16 Lign ..... Price each $10.50

WEATHER BAROMETER

No. 9582, $1.80
Birch Bark Covering Stag Head and Acorns. Rustic Trimmings.
Size, 9 x 6½.
Thermometer Attached.
In good weather lady appears,
In bad weather man appears.

FRENCH BAROMETER

Brass Case, Closed Card Dial

No. 9582, 5 inch ..... each, $15.00

Open Metal Dial, with One or Two Thermometers (like illustration).

No. 9584, 6½ inch ..... each $32.00

ENGLISH BAROMETER

Brass Case, Closed Porcelain Dial.

No. 9585, 5 inch ..... each, $10.00

Brass Case, Open Porcelain Dial, with Thermometer.

No. 9586, 5 inch ..... each, $17.00

POCKET COMPASSES

PRICE EACH

No. 9587, 25m. m., $0.30
Brass Open Case with Ring, Card Dial.

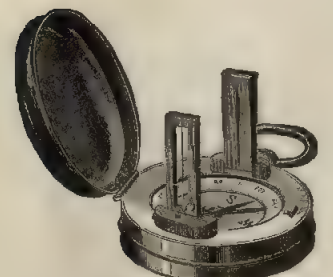
No. 9588, 1¼ inches, $0.50
Brass Case with Pull-Off Cover, Card Dial.

No. 9589, 1¼ inches, $0.65
Nickel Open Face Case with Ring Metal Dial

No. 9590, 1½ inches, $1.50
Brass Open Case with Ring Meta. Dial with Full Divisions, Jeweled Needle with Stop.

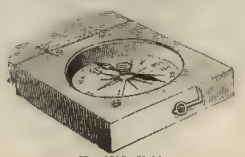
No. 9591, 1¾ inches, $2.00
Brass Case with Pull Off Cover Meta Dial with Full Divisions, Jeweled Needle with Stop.

No. 9592, 40 m. m., $2.25
Brass Case with Hinge Cover and Ring, Metal Dial with Full Divisions, Jeweled Needle with Stop



No. 9594, 2 inches, $10.00
Compass, Nickel Case with Ring Hinged Cover, Hinged Sights Silvered Metal Dial Raised Circle, Fine Divisons, 0 to 360 Degrees, Jeweled Bar Needle with Stop

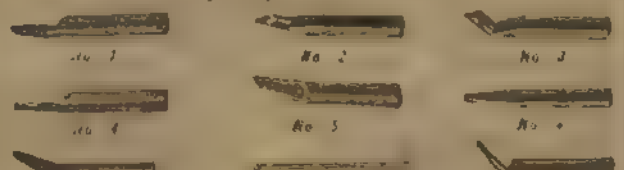
No. 9593, 50 m. m., $3.00
Pocket Compass, Brass Case Black Metal Dial, Raised Silvered Metal Circle, Fine Divisions 0 to 360 Degrees, Jeweled Bar Needle with Stop



No. 9595, $1.25
Wood Box Compass with Hinged Cover Paper Dial with Full Divisions

‡SLIDE REST LATHE TOOLS.

Forged from Finest Tool Steel, Natural Finish; Tempered Points. Average Length over all 6 inches



Size, inches	1/2x1 1/2	3/4x2 1/2	1 1/4x3 1/2
For Barnes' Lathes Nos	83 and 90	91 to 115	135 to 141
‡No. 1—Cut-Off Tool..... Each	30	30	40
	.48	.48	60
‡No. 2—Right Hand Diamond Point "	30	30	40
	.48	.48	60
‡No. 3—Left Hand Diamond Point. "	30	30	40
	.48	.48	60
‡No. 4—Right Hand Side Tool... "	30	30	40
	.48	.48	60
‡No. 5—Left Hand Side Tool.... "	30	30	40
	.48	.48	60
‡No. 6—Thread Tool..... "	30	30	40
	.48	.48	60
‡No. 7—Boat Thread Tool..... "	30	.30	40
	.48	.48	60
‡No. 8—Inside or Boring Tool... "	30	30	40
	.48	.48	60
‡No. 9—Boat Right Hand Side Tool "	30	30	40
	.48	.48	60

All the Numbers Illustrated are made in all the Three Sizes. The Numbers indicate the Shape
Packed Loose. Weight Each about

‡CIRCULAR RIP SAWS.

BARNES', HAND

Painted Cast Iron Frame, Fly and Gear Wheels, Cast and Idler, Steel Axles and Shafts Polished and Tempered Tool Steel Saws, for Ripping Hard or Soft Wood of any Thickness up to 3 1/4 in., and any width up to 19 in.; Fitted with Two Rollers which feed the Lumber to the Saw; Rollers are Self-Adjusting to thick or thin Lumber by means of the Idler; Two Hardwood Tables. The Front Table can be placed directly over the Saw and, being provided with an Adjustable Width Gauge, can be used for cutting Rabbets, Bevels, Tenons, etc.; By using Two Saws side by side, Grooving, Window or Door Stop Work can be done; An extra Saw is furnished for this purpose; Diameter of Fly Wheel 13 in.; 1 1/2 in. thick at Rim; Diameter of Saws 10 in.; Height to Top of Table 25 in.; Height over all 63 in.; Width over all 37 in.; Length over all, including Two Tables 79 in.

Showing No. 11 Circular Rip Saw with Front Table Placed Directly over Saw.

‡No. 11—*Weight each about 139 lbs.; Weight Boxed about 276 lbs* Each, $40.00 $32.00

Packed in Two Cases

‡CIRCULAR SAWS.

BARNES', CIRCULAR

Painted Iron Frame and Gear; Complete with Self-Feed, with TWO 10 IN. CIRCULAR SAWS (one each Rip and Cross Cut); Height over all 36 in.; Floor Space required 36x36 in.; Length over all with Extensions, 80 in.

‡No. 6—*Weight Boxed for Shipment about 400 lbs...Each,* $60.00 $42.00

One in a Crate

It is a Combined Foot and Hand Power Circular Saw, which can be used for RIP OR CROSS CUT SAWING; the Self-Feed can be Regulated properly for hard or soft, thick or thin Lumber, and is Self-adjusting for lumber of different or uneven thickness; Lumber up to 3 1/2 in. can be ripped with the 10-in. Saw

The Self-Feeding Mechanism can be instantly thrown back to the rear of the Machine, as also the Rip Gauge, leaving the Table perfectly clear for Cut-off Work; The Cut-off Gauge can be set at any required angle

The Speed can be regulated to give High Speed for Cross Cut Work or a Slower Speed for Ripping.

‡FOOT POWER FORMERS.

BARNES', IMPROVED.

Painted Cast Iron Frame, Seat, Gear Wheels, Cranks and Pedals; Steel Axles and Shaft; Plain Finish Hardwood Table; Size of Table 15x19 1/2 in.; Floor Space required 20x28 in.; Height over all 42 in.; Adapted for Moulding Edges of Brackets, Scroll Work, Panel Work and Mouldings of all Styles up to 7/8 in.; The Speed of the Knives is from 2,000 to 2,500 Revolutions per minute, the Knives can be revolved in either direction; Table can be lowered to give 2 1/4 in. Space between it and the Lower Edge of Knife.

Each

‡No. 20—*WITHOUT KNIVES; Weight Boxed for Shipment about 110 lbs.* $30.00 $22.00

‡MORTISING MACHINES.

BARNES'

Each

‡No. 33—*Complete with one Mortising Chisel each, Sizes 1/8, 3/16 and 1/4 in.; Painted Cast Iron Frame, Legs and Bed; Steel Foot Lever Plunger and Set Screws; Hardwood Bed Face; Length of Bed 22 in., Length of Bed Face 13 in.; Floor Space required 27x22 in., Height over all 53 in.; Weight Boxed for Shipment about 170 lbs* ... $23.00 $38.50

One in a Crate

MORTISING MACHINE CHISELS.

BARNES'

Forged from Finest Tool Steel; Polished Blade; Natural Finish Shank. Length 6 in. For Barnes' Mortising Machine No. 33

Sizes	1/8	3/16	1/4	5/16	3/8
Each	$1.00	1.00	1.00	1.00	1.00
	1.70	1.70	1.70	1.70	1.70

Sizes	7/16	1/2	5/8	3/4	1
Each	$1.00	1.00	1.00	1.00	1.00
	1.70	1.70	1.70	1.70	1.70

Packed Loose; Weight Each about 5 ozs.

‡COMBINED MACHINES.

BARNES', IMPROVED.

Each

‡No. 13—*Painted Iron Frame and Gear; CIRCULAR SAWS ONLY, including 2 Circular Saws, 1 Rip and 1 Cross Cut; Height over all 37 in.; Floor Space required 28x30 in. Weight Boxed for Shipment about 325 lbs* $40.00 $30.00

‡No. 15—*Painted Iron Frame and Gear; COMBINED CIRCULAR AND SCROLL SAWS, including 2 Circular Saws and 12 Assorted Scroll Saws; Height over all 37 in.; Floor Space required 28x30 in.; Weight Boxed for Shipment about 335 lbs..* $40.00 $31.00

‡No. 17—*Painted Iron Frame and Gear; COMBINED CIRCULAR, SCROLL SAWS AND BORING ATTACHMENTS, including 2 Circular Saws, 12 Assorted Scroll Saws, the Boring Attachment with Self-Centering Drill Chuck, all combined in one Machine; Height over all about 37 in.; Floor Space required 28x30 in.; Weight Boxed for Shipment about 375 lbs.....* $60.00 $80.00

When either the Circular Saw, Scroll Saw or Boring Machine is ordered separate, the other parts can be furnished, if the Number of the Machine is given.

For Light Ripping, Cutting to Length, Cut-off Work, etc., the Circular Saw of the Combined Machine is invaluable

The Circular Saw, while remaining on its Mandrel, can be taken at once out of the way when the Scroll Saw is to be used; The Mandrel is set in its Bearing in such a manner as to enable the Operator to take the whole (Mandrel and Saw) from the Machine in an instant.

All Varieties of Joint Work can be done truly and rapidly. The Table can be handily adjusted up or down by a Cam, to allow any desired Depth of Cut being made by the Saws or Cutter Tools; The Circular Saws are 6 in. in Diameter, and reach 1 7/8 in. above the Table; A 7 or 8 in. Saw can be used if desired.

Emery Wheels, 2 in. size up to 1 in. Face by 6 in. in Diameter, can be used to good advantage on this Machine.

Packed in Two Cases.

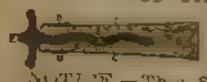
‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

FORKS.

KEEN KUTTER

KEEN KUTTER Forks are Packed in Convenient Bundles, the Tines are Burlapped, each Handle is Covered with a Separate Paper Envelope and then the Bundle is Wrapped in Paper—Keeps them Clean.

SECTIONAL CUT SHOWING THE ZIG-ZAG SHANK OF THE HEAD IN THE FORK.



A, Zig-Zag Shank; B, Handle; C, Ferrule; D, Ferrule Cap; E, Handle Wedge between the Shank and Ferrule D Fast Head.

NOTICE—This Shank absolutely prevents the Handle from turning, pulling or working loose on Fork Head.

Highest Grade Crucible Forged Steel Oval Polished Tines; Zig-Zag Steel Shank which Prevents Handle from Turning, Pulling or Working Loose on Fork Head; Extra Select Second Growth Straight Grained Ash Handle, Polished, Waxed and Labeled; Black Lacquered Steel Ferrule with Gold Bronzed Cap; Tines Oil Tempered and Carefully Tested.

KEEN KUTTER Forks have correct Dish and Bend of Tines. Satisfactory selection, shaping and setting of the handles. They are patterned exactly right, and in quality are guaranteed without reserve against any highest quality brand.

HAY FORKS.

No. K304.

THREE TINE; STRAIGHT HANDLE.

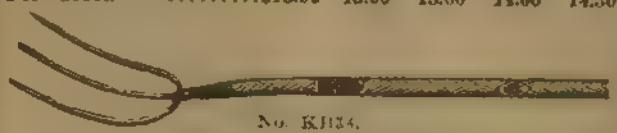
Length of Tines 12½ in.; Spread (extreme width) 7¼ in.

PLAIN FERRULE.

No. K35 Length of Handle 4 ft.; Weight per dozen about 34 lbs. ..... Per Dozen, $11.00

STRAP FERRULE.

Nos.	K304	K304½	K305	K305½	K306
Length of Handle, ft.	4	4½	5	5½	6
Wgt. per doz. abt., lbs.	31	33	35	37	39
Per dozen	$13.00	13.00	13.00	14.00	14.50



No. KH34.

THREE TINE; BENT HANDLE.

Length of Tines 12½ in.; Spread (extreme width) 7¼ in.

PLAIN FERRULE.

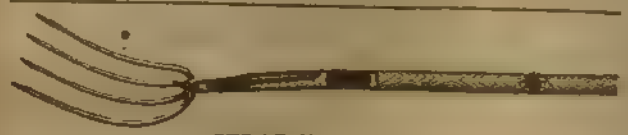
Nos.	KB33½	KB34	KB34½
Length of Handle, ft.	3½	4	4½
Weight per dozen about, lbs.	28	29	31
Per dozen	$12.00	12.00	12.00

STRAP FERRULE.

Nos.	KB303½	KH304
Length of Handle, ft.	4½	4
Weight per dozen about, lbs.	29	31
Per dozen	$13.00	13.00

Nos.	KH304½	KB305	KB305½
Length of Handle, ft.	4½	5	5½
Weight per dozen about, lbs.	33	35	37
Per dozen	$13.00	14.00	14.50

For all-day use on a harvest field KEEN KUTTER goods will win more friends than any other make of goods, by reason of their lightness and easy hang.



STRAP FERRULE.

FOUR TINE; CHAMPION PATTERN; BENT HANDLE.

Length of Tines 13 in.; Spread (extreme width) 7½ in.

Nos.	KCH404	KCH404½
Length of Handle, ft.	4	4½
Wgt. per doz. abt., lbs.	33	35
Per dozen	$15.50	15.50

Nos.	KCH405	KCH405½	KCH406
Length of Handle, ft.	5	5½	6
Wgt. per doz. abt., lbs.	38	42	46
Per dozen	$15.50	16.20	16.50

One Dozen or One-half Dozen in a Bundle, Tines Burlapped, each Handle in Separate Paper Envelope and Each Bundle Wrapped in Paper.

FORKS.

KEEN KUTTER

Highest Grade Crucible Forged Steel Oval Polished Tines; Zig-Zag Steel Shank which Prevents Handle from Turning, Pulling or Working Loose on Fork Head; Extra Select Second Growth Straight Grained Bent Ash Handle Polished, Waxed and Labeled; Black Lacquered Steel Ferrule with Gold Bronzed Cap; Tines Oil Tempered and Carefully Tested.

HEADER FORKS.

No. KU404½.

CHAMPION PATTERN.

FOUR TINE; ROUND SHOULDER, WITH RIVETED SHANK.

UTAH PATTERN.

SHORT TINES; JUNIOR SPREAD.

Length of Tines 14 in.; Spread (extreme width) 9½ in.

Nos.	KU404½	KU405
Length of Handle, ft.	4½	5
Weight per dozen about, lbs.	40	42
Per dozen	$18.00	18.50

MONTANA PATTERN.

MEDIUM TINES; JUNIOR SPREAD.

Length of Tines 15 in.; Spread (extreme width) 9½ in.

Nos.	KM405	KM405½
Length of Handle, ft.	5	5½
Weight per dozen about, lbs.	44	46
Per dozen	$19.00	20.00

REGULAR PATTERN.

THREE TINE; ROUND SHOULDER, WITH RIVETED SHANK.

Length of Tines 15 in.; Spread (extreme width) 10½ in.

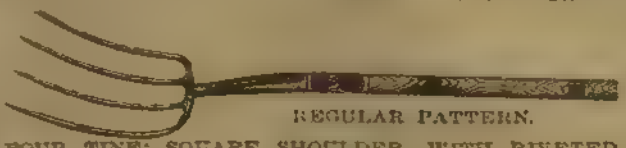
Nos.	KC 304½	KC 305	KC 305½
Length of Handle, ft.	4½	5	5½
Wgt per doz. abt., lbs.	37	40	42
Per dozen	$17.00	17.50	18.00

REGULAR PATTERN.

FOUR TINE, ROUND SHOULDER, WITH RIVETED SHANK.

Length of Tines 15 in., Spread (extreme width) 10½ in.

Nos.	KC 404½	KC405	KC405½
Length of handle, ft.	4½	5	5½
Weight per dozen about, lbs.	42	44	46
Per dozen	$19.00	19.50	20.00

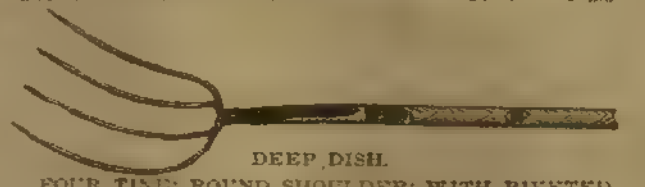


REGULAR PATTERN.

FOUR TINE; SQUARE SHOULDER, WITH RIVETED SHANK.

Length of Tines 15 in.; Spread (extreme width) 10½ in.

Nos.	KS/404	KS/404½	KS/405	KS/405½
Length of Handle, ft.	4	4½	5	5½
Wgt. per doz. abt., lbs.	40	42	44	46
Per dozen	$17.50	17.50	18.00	18.50



DEEP DISH.

FOUR TINE; ROUND SHOULDER; WITH RIVETED SHANK, BENT HANDLE.

Length of Tines 15 in.; Spread (extreme width) 10¼ in.

Nos.	KH404	KH404½
Length of Handle, ft.	4	4½
Weight per dozen about, lbs.	38	40
Per dozen	$20.50	20.50

One Dozen or One-half Dozen in a Bundle, Tines Burlapped, Each Handle in Separate Paper Envelope and Each Bundle Wrapped in Paper.

TENNIS COURT EQUIPMENT.

The Following Items are Necessary to Properly Equip a Tennis Court:

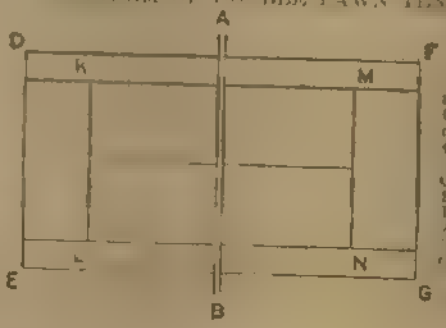
One S. H. Co.'s "Inter-Collegiate" Net, No. 3E or 3F.
One Pair Solid Posts, No. 4/S.
One Set Double Court Marking Tapes.
One Adjustable Center Strap, No. 3/0.
Two Back-Stop Nets, No. 5.

DIMENSIONS OF SINGLE AND DOUBLE LAWN TENNIS COURTS.

DIAGRAM OF SINGLE LAWN TENNIS COURT

Total length, L to H 78 ft.; Width, A to B, 27 ft.; Half Court Line, 21 ft. In length, 18 ft. from each side of Net to Service Lines N—M and L—K).

DIAGRAM OF DOUBLE LAWN TENNIS COURT



Dimensions are same as Single Court, with additions of Alleys 4½ ft. wide on [illegible] of COURT. THE NET SHOULD HANG 3 FT. IN THE CENTER AND BE TIGHT IN CENTER.

CROQUET.

CLIMAX.

Cut Showing Box [illegible] Climax Croquet Sets

Climax Brand represents Highest Quality in Croquet. Made on Improved Lathes, especially designed for the purpose, and the [illegible] to Lawn Sets at the Higher Prices. All [illegible] Selected Wood, the Heads [illegible] and Perfect Timber. Free from Knots, Cracks and Other Defects that

Boys' Maple Turned [illegible] Ball Polished Natural Hard Wood Mallet Heads 5 in. Long, with 24 in. Select Polished Hard Wood Handles. Mallet [illegible] Stained Colors, with White Face Bands. Set Contains Four Mallets, Four Colored Balls, Two Pairs of Polished Maple Stakes, Two Galvanized Arches. Packed in Heavy Canvas Bag with Handle.

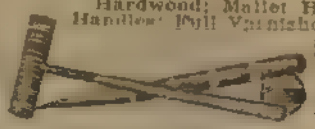
No. 25 PROFESSIONAL FOUR BALL SET. Weight per crate of 3 sets 65 lbs. ..... Per Set, $6.00

Polished Hardwood Mallet Heads [illegible] Long, Solid Two [illegible] Maple Handles [illegible] Stakes Painted Colors [illegible] Stakes. Two Pairs Polished Maple Stakes, Two Galvanized Arches. Packed in Heavy Canvas Bag with Handle.

No. 2—EIGHT BALL SET. Weight per set about 12 lbs. ..... Per Set $7.00

All Rock Maple Turned by Hand with Genuine Shellac Finished Mallet Heads 9 in. Long, with 26 in. [illegible] Handles Varnished and Polished. Mallets and Balls Painted and Striped. Polished Brass Bound Stakes. Heavy Galvanized Arches. Packed in Heavy Canvas Bag with Handle.

No. 18 PROFESSIONAL FOUR BALL SET. Weight [illegible] lbs. ..... Per Set, $5.70



Hardwood Mallet Heads 9 in. Long with 26 in. Handles Full Varnished and Striped Balls; Handles and Stakes Painted and Striped, Extended Arches.

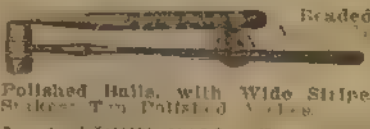
Per Set

No. 12 [illegible] Per Set about 18 lbs. $2.90

No. 13 PROFESSIONAL EIGHT BALL SET. Weight [illegible] lbs. 1.00

All Rock Maple; Polished, Turned by Hand Highly Polished. Genuine White Shellac and Lathe Polished Mallet Heads [illegible] Long, with [illegible] Handles [illegible] Diameter of Mallet Select Fancy Striped Balls, Two Large Braided Four Colored Stakes, Heavy Galvanized Arches.

No. 20 FOUR BALL SET. Weight per set about 20 lbs. ..... Per Set, $5.00



Braided, Turned Hardwood Mallet Heads [illegible] Long, with Handles Wide Stripes, Full Varnished, Select Polished Balls, with Wide Stripes, Two Eight Colored Stakes. Two Polished Arches.

No. 1 EIGHT BALL SET, Weight per set about 24 lbs. ..... Per Set, $3.20

Hardwood Turned by Hand, Natural Polished Mallet Heads [illegible] Handles with Wide Stripes, Four Colored Balls, Four Colored Stakes, Heavy Galvanized Arches.

No. 15—PROFESSIONAL FOUR BALL SET; Weight per set about 21 lbs. ..... Per Set $4.50

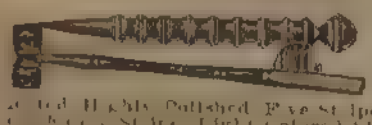
Varnished Hardwood Mallet Heads [illegible] Long with [illegible] in Long with 2 in. Striped Handles and Striped Rock Maple Balls. Two Pairs Colored Stakes, Polished Arches.

Per Set

No. 5—FOUR BALL SET; Weight per set about 14 lbs. $1.40

No. 10—SIX BALL SET 1.70

No. XA—EIGHT BALL SET 2.00



Hardwood, Turned by Hand; 4 Finely Painted Mallet Heads 6¾ in. Long, 28 in. Turned Handles with 9 Extra Stripes, Selected Highly Polished Five Striped Balls, 2 Pairs Polished Maple Stakes, Eight Colored Stakes, Heavy Galvanized Arches.

No. 7 EIGHT BALL SET; Weight per set about 27 lbs. ..... Per Set $3.50

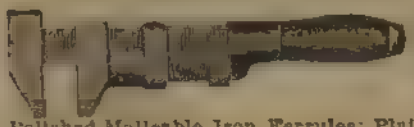
Braided and Varnished Hardwood Mallet Heads [illegible] in. Long, with [illegible] in. Handles, Varnished and Polished Ball, All Alike Set. Two Eight Colored Stakes, Two Polished Maple Arches.

No. AA—EIGHT BALL SET; Weight per set about 22 lbs. $2.80

Per Set in a Dovetailed Hardwood Box with Set of Rules. These Sets [illegible]

WRENCHES.

BAY STATE* AGRICULTURAL.

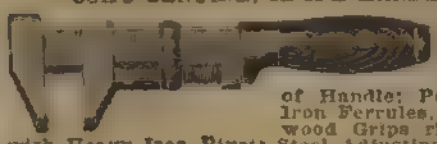


Wrought Iron; Hardened Jaws, Shank Extends Through to End of Handle, Screwed to Cap at End; Polished Malleable Iron Ferrules; Plain Finish Hardwood Grip; Wrought Iron Adjusting Screw.

Nos.	BWS	[illegible]
Length, inches	8	10
Jaws, Open, Inches	1 1/4	1 7/8
Weight per dozen about, lbs.	14	21
Per dozen	$5.00	6.80

One-half Dozen in a Package.

COE'S GENUINE; KNIFE HANDLE, BLACK.

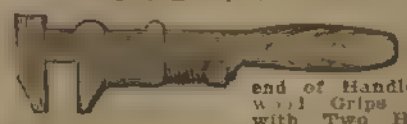


Forged from Tool Steel; Case Hardened Jaws; Shank extends through to end of Handle; Polished Malleable Iron Ferrules, Varnished Hardwood Grips riveted to Handle with Heavy Iron Rivet; Steel Adjusting Screw.

Nos.	C/6	C/8	C/10	C/12	C/15	C/18	C/21
Length, inches	6	8	10	12	15	18	21
Jaws, Open, Inches	1	1 1/8	2 1/8	2 1/8	2 5/8	3 1/4	4 1/8
Wgt. per doz. abt., lbs.	9	15	25	38	57	78	108
Per dozen	$9.00	10.00	12.00	14.00	24.00	30.00	36.00
	11.30	12.40	14.70	17.00	29.40	36.20	43.05

Nos. C/6 to C/15, ½ Dozen; Nos. C/18 to C/21, ½ Dozen in a Package.

P. S. & W.; SOLID HANDLE, BLACK.

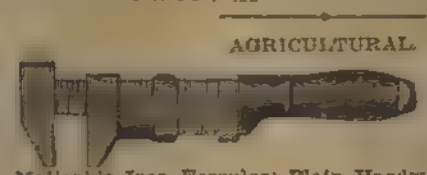


Forged from Tool Steel; Case Hardened Jaws; Shank extends through to end of Handle; Varnished Hardwood Grips riveted to Handle with Two Heavy Iron Rivets; Metal Parts of Handle Polished; Steel Adjusting Screw.

Nos.	P6	P8	P10	P12	P15	P18	P21
Length, inches	6	8	10	12	15	18	21
Jaws, Open, Inches	1	1 1/8	1 1/8	2 1/8	2 1/8	3 1/4	4
Wgt. per doz. abt., lbs.	8	16	27	39	57	75	102
Per dozen	$9.00	10.00	12.00	14.00	24.00	30.00	36.00
	9.50	11.00	13.00	15.00	28.00	32.00	38.00

Nos. P6 to P12, ½ Dozen; Nos. P15 to P18, ⅓ Dozen; No. P21, ½2 Dozen in a Wood Box.

AGRICULTURAL.



Wrought Iron; Case Hardened Jaws; Shank extends through to end of Handle, Screwed to Cap at end; Polished Malleable Iron Ferrules; Plain Hardwood Grip; Wrought Iron Adjusting Screw.

Nos.	6/6	8/8	8/10	8/12	8/15
Length, inches	6	8	10	12	15
Jaws, Open, Inches	1 1/16	1 1/4	1 5/8	1 7/8	2 1/4
Weight per doz. about, lbs.	9	14	21	28	41
Per dozen	$10.00	12.00	14.00	17.00	24.00
	5.10	6.10	7.10	8.60	12.40

One-half Dozen in a Package.

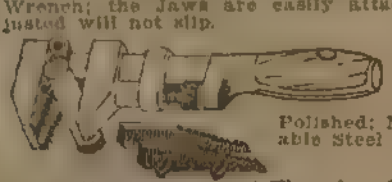
Table of Weights and Contents of Cases.

Length, inches	6	8	10	12	15	18	21
Dozen in a Case	6	6	6	6	3	3	1
Wgt. per Case abt., lbs.	65	110	182	256	180	270	130

EXTRA PIPE JAWS FOR WRENCHES.

YANKEE.

By the use of Yankee Pipe Jaws any ordinary Pattern Monkey Wrench may be quickly transformed into a Pipe Wrench; the Jaws are easily attached, and when adjusted will not slip.



Showing Jaws attached to Wrench; also Jaws alone.

Forged from Tool Steel, Tempered and Polished; Milled Teeth; Adjustable Steel Thumb Screws

Per Dozen.

No. 1—For all Standard Wrenches, 15 to 21 in.; Length [illegible] Thickness 5/16 in.; Weight [illegible] per dozen about 3 lbs. [illegible]

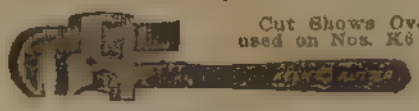
No. 2—For all Standard Wrenches, 6 to 15 in. Length 3¼ in.; Width ⅝ in.; Thickness 5/16 in. Weight per dozen about 3½ lbs. $5.30

One-half Dozen on a Display Card; Size of Card 6 in. Wide, 9¼ in. Long

PIPE WRENCHES.

KEEN KUTTER*

(Stillson Pattern.)



Cut Shows Oval Grip Handle, as used on Nos. K6 to K18 inclusive.

Cut Shows Straight Handle, as used on Nos. K24 and K36.

Jaws and Handle Drop Forged Tool Steel; Jaws Double Reinforced, with Polished Edges, Tempered and Drawn and can be Re-sharpened with a File, always Insuring a Bite; Polished Head; Nickel Plated Frame fastened to Handle with a Steel Pin. Steel Knurled Adjusting Nut. Nos. K6 and K8 have Single Springs; Nos. K10 to K24 have Double Springs. All have Steel Handles; Nos. K6 to K18 inclusive have OVAL GRIP. No. K24 has STRAIGHT HANDLE.

Nos.	K6	K8	K10	K14
Length, inches	6	8	10	14
Adjustable for Pipe, in.	⅛ to ½	⅛ to ⅝	⅛ to 1	⅛ to 1½
Weight each, about, lbs.	¼	⅓	1	2½
Each	$1.10	1.40	1.50	1.90
	K18	K24	K30	
Length, inches	18	24	30	
Adjustable for Pipe, inches	⅛ to 2	⅛ to 2½	⅛ to 3½	
Weight each about, lbs.	4½	7½	15	
Each	$2.50	3.70	7.10	

Nos. K6, K8, K10 and K14, 6 in a Cardboard Box; Nos. K18 and K24, 12 in a Wood Box. No. K30, Packed Loose.

EXTRA PARTS FOR KEEN KUTTER* PIPE WRENCHES.

JAWS.

Nos.	KJ6	KJ8	KJ10
For Wrenches No.	K6	K8	K10
Weight each about, lbs.	⅛	¼	½
Each	$0.45	.45	.55
Nos.	KJ14	KJ18	KJ24	KJ30
For Wrenches No.	K14	K18	K24	K30
Weight each about, lbs.	¾	⅞	1⅛	2⅛
Each	$0.70	.80	1.40	2.60

NUTS.

Nos.	KN6	KN8	KN10
For Wrenches No.	K6	K8	K10
Weight each about, lbs.	⅛	¼	⅜
Each	$0.12	.12	.16
Nos.	KN14	KN18	KN24	KN30
For Wrenches No.	K14	K18	K24	K30
Weight each about, lbs.	½	¾	1	1⅝
Each	$0.20	.28	.30	.50

FRAMES WITH RIVETS.

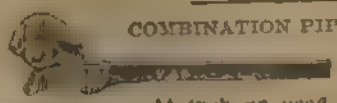
One Rivet Included with Each Frame

Nos.	KF6	KF8	KF10
For Wrenches No.	K6	K8	K10
Weight each about, lbs.	⅛	¼	⅜
Each	$0.22	.22	.24
Nos.	KF14	KF18	KF24	KF30
For Wrenches, No.	K14	K18	K24	K30
Weight each about, lbs.	½	¾	1	1½
Each	$0.30	.34	.50	.80

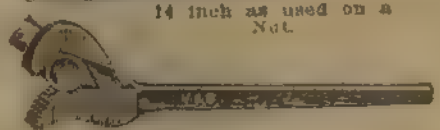
Packed Loose

PIPE WRENCHES.

COMBINATION PIPE AND NUT.



14 inch as used on a Nut.



24 inch as used on Pipe.

Drop Forged from Tool Steel; Hardened and Polished Jaws; Natural Finish Handle.

Nos.	VB10	VB14	VB18	VB24
Length, inches	10	14	18	24
Adjustable to Pipe, in.	⅛ to 1	⅛ to 1½	⅛ to 2	⅛ to 2½
Weight each abt., lbs.	1½	2½	4	6
Each	$1.70	2.20	3.00	4.30

VB10 and VB14 Six in a Package; VB18 and VB24 Packed Loose

PIPE WRENCHES.

OAK LEAF*.

Showing Wood Handle.

Showing Steel Hardle

Drop Forged Tool Steel; Jaws Hardened; Polished Shank, Frame and Jaws; Frame Fastened to Handle with Steel Pin; Knurled Steel Adjusting Nut; Double Springs.

BRONZED HARDWOOD HANDLES through which Shank Extends and Fastened with Polished Steel Nut on End

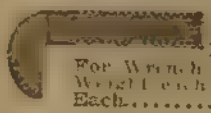
Nos.	EP6	EP8	EP10	EP14
Length Open, in.	6	8	10	14
Adjustable for Pipe, in.	¼ to ½	⅜ to ¾	⅜ to 1	¾ to 1½
Weight each about, lbs.	¼	½	1½	2½
Each	$1.10	1.10	1.34	1.70

STEEL HANDLES

Nos.	EP18	EP24	EP36
Length Open, in.	18	24	36
Adjustable for Pipe, in.	¾ to 2	¾ to 2½	½ to 3½
Weight each about, lbs.	4	7½	15
Each	$2.50	3.30	6.40

Nos. EP6 to EP24, Six in a Wood Case; No. EP36 Packed Loose.

EXTRA PARTS FOR OAK LEAF* PIPE WRENCHES.



JAWS.

Nos.	EJ6	EJ8	EJ10	EJ14
For Wrench Nos.	EP6	EP8	EP10	EP14
Weight each about, lbs.	¼	½	¾	1
Each	$0.38	.38	.40	.50

Nos.	EJ18	EJ24	EJ36
For Wrench Nos.	EP18	EP24	EP36
Weight each about, lbs.	1⅞	3¼	4⅞
Each	$0.68	1.06	2.40

NUTS.

Nos.	EN6	EN8	EN10	EN14
For Wrench Nos.	EP6	EP8	EP10	EP14
Weight each about, lbs.	1/16	⅛	¼	½
Each	$0.06	.06	.08	.10

Nos.	EN18	EN24	EN36
For Wrench Nos.	EP18	EP24	EP36
Weight each about, lbs.	¼	½	¾
Each	$0.12	.18	.28

FRAMES.

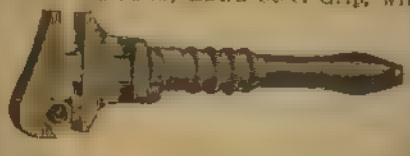
Nos.	EF6	EF8	EF10	EF14
For Wrench Nos.	EP6	EP8	EP10	EP14
Weight each about, lbs.	⅜	⅜	½	½
Each	$0.18	.18	.30	.26

Nos.	EF18	EF24	EF36
For Wrench Nos.	EP18	EP24	EP36
Weight each about, lbs.	½	¾	1½
Each	$0.25	.40	.66

Packed Loose.

BEMIS & CALL'S COMBINATION.

Forged from Tool Steel, Polished Shank, Nut and Hardened Jaws, Extra Steel Grip, with Teeth on one end of Jaw for Pipe; Shank extends through Ferrule and Handle and screwed [illegible] at end; Polished Ferrule and Cap; Polished Hardwood Handle.



Bright, with Long Nut.

Nos.	4510	4512	4515	4518
Inches	10	12	15	18
Adjustable to Pipe, in.	½ to 1	½ to 1½	½ to 2¼	½ to 3
Weight dozen about, lbs.	29	38	54	58
Per dozen:	$25.25	28.50	40.50	72.00
	32.30	36.20	50.60	87.40

Nos. 4510 to 4515, One-half Dozen in a Wood Box; No. 4518, One-sixth Dozen in a Package.

Extra Dogs for B. & C. Combination Wrenches.

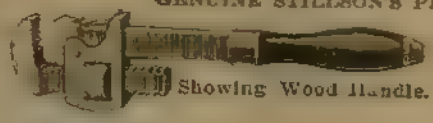
NEW STYLE, WITH PIN.

Nos.	ND10	ND12	ND15
Inches	10	12	15
Weight each about, lbs.	¼	⅜	½
	10 25	.35	.35
	$0.36	.42	.50

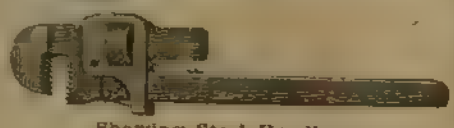
Packed Loose

PIPE WRENCHES.

GENUINE STILLSON'S PIPE.



Showing Wood Handle.



Showing Steel Handle.

Drop Forged Tool Steel, Polished Shank, Frame and Hardened Jaws; Frame fastened to Jaw by Malleable Steel Pin; Jaw adjusted by Steel Nut. Shank extends through [illegible] and Handle and screws into patent Single Spring

Ebony Finish HARDWOOD HANDLE; Polished steel Ferrule and Cap.

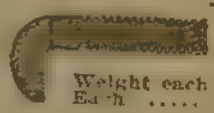
Nos.	SP6	SP8	SP10	SP14
Length, Open, inches.	6	8	10	14
Adjustable for Pipe, in.	⅛ to ⅝	⅛ to ⅝	⅛ to 1	⅛ to 1½
Weight each about, lbs.	¾	½	1½	2½
Each	$2.00	2.00	2.25	3.00
	1.40	1.40	1.60	2.00

STEEL HANDLE; Double Spring

Nos.	SP18	SP24	SP36	SP48
Length, Open, inches.	18	24	36	48
Adjustable for Pipe, in.	⅛ to 2	⅛ to 3½	⅛ to 4½	1 to 5
Weight each about, lbs.	4½	7½	13	24
Each	$4.50	6.00	11.00	17.00
	2.60	3.90	7.70	11.90

Nos. SP6 to SP24, Six in a Wood Case; Nos. SP36 and SP48, Packed Loose.

EXTRA PARTS FOR GENUINE STILLSON'S PIPE WRENCHES.



JAWS.

Nos.	SJ6	SJ8	SJ10	SJ14
Inches	6	8	10	14
Weight each about, lbs.	⅛	½	½	⅝
Each	$0.75	.75	.80	1.00
	.46	.46	.48	.60

Nos.	SJ18	SJ24	SJ36	SJ48
Inches	18	24	36	48
Weight each about, lbs.	1⅞	3⅛	4½	6⅞
Each	$1.33	2.10	4.75	7.25
	.80	1.26	2.90	4.40

NUTS.

Nos.	SN6	SN8	SN10	SN14
Inches	¾	⅞	1¼	1¾
Weight each about, lbs.	1 32	1 16	⅛	⅛
Each	$0.11	.11	.14	.17
	.07½	.07½	.08½	.10½

Nos.	SN18	SN24	SN36	SN48
Inches	18	24	36	48
Weight each about, lbs.	¼	½	⅝	1
Each	$0.22	.35	.54	.97
	.14	.22	.34	.58

FRAMES.

Nos.	SF6	SF8	SF10	SF14
Length, Open, Inches.	6	8	10	14
Weight each about, lbs.	¼	½	½	1
Each	$0.35	.35	.45	.57
	.22	.22	.24	.30

Nos.	SF18	SF24	SF36	SF48
Length, Open, Inches.	18	24	36	48
Weight each about, lbs.	¾	1	1½	2
Each	$0.55	.80	1.30	1.80
	.34	.48	.78	.90

Packed Loose.

BEMIS & CALL'S COMBINATION

Forged from Tool Steel, Polished Shank, Nut and Hardened Jaws; Extra Steel Grip, with Teeth on one end of Jaw for Pipe. Shank extends through Ferrule and Handle and screwed [illegible] at end; Polished Ferrule and Cap; Polished Hardwood Handle.

Black, with Short Nut.

Nos.	4410	4412	441	4418
Inches	10	12	15	18
Adjustable to Pipe, in.	½ to 1	½ to 1¾	½ to 2½	½ to 3
Weight dozen about, lbs.	24½	36	50	81
Per dozen	$23.00	26.00	37.00	66.00
	28.98	36.10	42.00	73.30

Nos. 4410 to 4415, One-half Dozen in a Wood Box; No. 4418, One-sixth Dozen in a Package.

Extra Dogs for B. & C. Combination Wrenches.

OLD STYLE WITH SCREW.

Nos.	OD10	OD12	OD15
Inches	10	12	15
Weight each about, lbs.	⅜	⅜	½
Each	$0.25	.36	.33
	50.38	.42	.50

Packed Loose.

COFFEE MILLS

BOX

Per Dozen

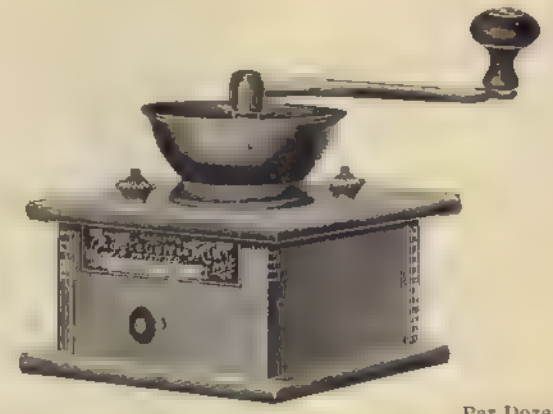
No. 1170—5¼x5¼x3¼ in., Varnished Box, Japanned Iron Hopper $3.50
4 50

Weight Per Dozen 26 Pounds
One Dozen in a Box

Per Dozen

No. 1180—4⅝x4⅝x2¾ in., Varnished Dovetailed Box, Japanned Iron Hopper . $5
6 00

Weight Per Dozen 38 Pounds
One-half Dozen in a Box



Per Dozen

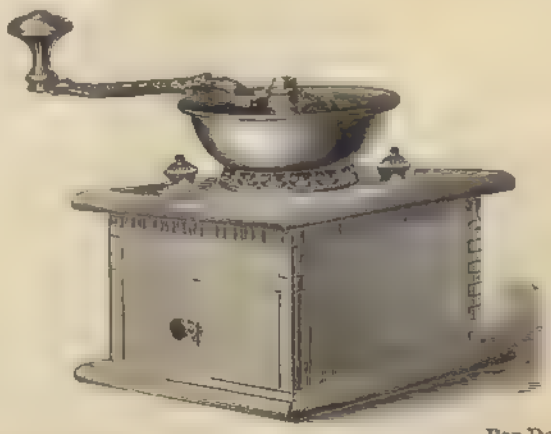
No. 104P—Eagle, 5x5x3 in., Varnished Dovetailed Box, Japanned Iron Hopper, Top Adjusting Nuts $8.50
9 00

Weight Per Dozen 50 Pounds
One-half Dozen in a Box

Per Dozen

No. 314 . 5x5x3 in., Varnished Dovetailed Box Retinned Hopper, Top Adjusting Nuts, a Very Rapid Grinder Easily Operated $8 50
8.00

Weight Per Dozen 44 Pounds
One-half Dozen in a Box



Per Dozen

No. 318 . 7⅜x5¼x3⅛ in., Varnished Dovetailed Box, Retinned Hopper, Top Adjusting Nuts, Very Rapid and Easy Grinders. $12 00
10.00

Weight Per Dozen 48 Pounds
One-half Dozen in a Box

COFFEE MILLS.

HOLLAND BEAUTY

Wood Back, 4x12 in.; Varnished. Lithographed Tin Canister, with Lid; Chilled Iron Grinders; Front Thumb Screw Adjustment. Japanned Cast Body and Handle; Detachable Tin Cup.

CAPACITY OF HOPPER 1 LB.; Height over all 14 in.; Extreme Width 4½ in. Canister 6x6 in.

Per Dozen

No. HB—HOLLAND BEAUTY; Weight per dozen about 35 lbs..... $6.50

One Dozen in a Fibre Case

NONE-SUCH

22-Gauge Stamped Steel Japanned Box, with Metal Drawer; Seamed Top; Dished and Beaded Bottom; Steel Crank; Enameled Knob; Sunk Hopper, with Dome Top and Sliding Cover. Adjusting Screw and Nut at Top of Handle; Adjustable Chilled Iron Grinders.

Box, 6¼ in. Square; Height 7¾ in. (including Dome Top); Height over all 10½ in.; CAPACITY 1 LB.

Per Dozen

No. NS—NONE-SUCH; Weight per dozen about 40 lbs..... $8.50

One Dozen in a Case.

MONITOR.

22-GAUGE STAMPED STEEL JAPANNED HOPPER, Body and Beaded Base, with Metal Cup; Japanned Cast Crank with Enameled Knob; Patent Grinder Adjustment, regulated with Steel Pin; Chilled Iron Grinder, with Feeding Prongs to gather in the Coffee quickly.

Per Dozen

No. M—MONITOR; Height over all 6⅜ in.; Base 6 in Square; Weight per dozen about 25 lbs..... $5.00

One Dozen in a Fibre Case.

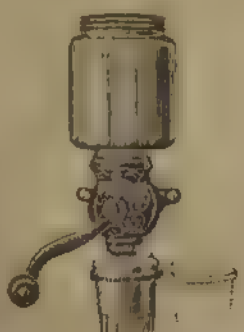
Clear Glass Round Canister, with Screw Top and Tumbler; Chilled Steel Grinder, with Wheel Screw Adjustment in Front; Japanned Cast Iron Grinder Casing, Wall Bracket, Handle and Glass Holder; Handle Fitted with Natural Color Wood Grip; Cup Holder Fitted with Spring to hold Cup under Grinder, making it Air-tight

Capacity of Hopper 1 lb; Diameter of Hopper 4½ in.; Height over all 17 in.

Per Dozen

No. 26—Weight per dozen about 90 lbs..... $17.00

One-twelfth Dozen in a Carton; One-half Dozen in a Crate



Clear Glass Round Canister, with Screw Top and Glass Tumbler; Chilled Steel Grinders with Screw Adjustment. Wall Bracket Grinder Casing and Tumbler Holder Made of Cast Iron Black Japanned; Cast Iron Crank with Natural Finish Wood Grip, Tumbler Holder works on a Swinging Bracket so that Tumbler can easily be removed.

CAPACITY OF HOPPER 1 LB Diameter of Canister 4½ in.; Height over all 14½ in.; Diameter of Cap Screw 3⅜ in

Per Dozen

No. 207—Weight per dozen about 80 lbs..... $11.00

One-half Dozen in a Case

REGAL.

Cast Iron Japanned Body and Handle; Japanned Tin Hopper and Detachable Cup; Front Thumb Screw Adjustment. Hardened Cast Grinders.

Capacity of Hopper 1 lb.; Height over all 14 in.; Extreme Width 6¼ in.; Hopper 4½ in. Diameter, 4½ in. Deep.

Per Dozen

No. 44—REGAL; Weight per dozen about 46 lbs..... $9.00

One-half Dozen in a Case

COFFEE MILLS.

PARKER'S PLANTATION.

To Screw to Post or Wall; Cast Iron Japanned; With Cast Hardened Grinders, and Large Fly Wheel

Hopper 5¼x10 in.; Diameter of Wheel 17 in.

Each

No. 3—PARKER'S; Weight each about 40 lbs.....$6.50

Two in a Case.

PORTABLE PLATFORM SCALES.

Extra Weights should not be added to make Scales weigh more than intended.

SIMMONS STERLING CYCLO.

Heavy Cast Iron Base Frame, with Wheel Hoods covering Each Wheel; Heavy Cast Iron Platform Frame fitted with Hardwood Platform. Hardened Flexible Steel Lever Bearing Loops, and Platform Bearing Feet; Pivots made of best Tool Steel, Carefully Ground to a Knife Edge.

Fitted with Two Cast Iron SWIVEL (or Caster) Wheels at Front End of Scale, and Two Stationary Cast Iron Wheels at Rear End of Scale; the Swivel Wheels are supported on Ball Bearing Swivel Heads, fastened in the Corners of Base Frame on Steel Bearing Pins Rear Stationary Wheels are supported on Steel Axle, which extends through the Frame and is fastened on inside with Two Hexagon Nuts; these Wheels are Inclosed within a Hood at Corner of Base Frame, which Protects them from Dirt and Outside Obstruction, and adds greatly to the Strength and Appearance of the Scale.

By means of the SWIVEL BALL BEARING WHEELS on the Sterling Scales they can be moved and handled with the utmost ease in any direction, and do away with all lifting and tipping of the scales in order to move them.

Fitted with Selected Hardwood Pillar and Pillar Caps, Securely Bolted with Fancy Nickel Plated Hexagon Nuts; Solid Brass Beam, with Crescent Shaped Sliding Poise, Highly Polished; Cast Iron Weights; All Wood Parts Handsomely Finished in Oak and Varnished, with Gilt Striping, All Iron Parts Black Japanned.

Beam on 600 lb Capacity Graduated in ⅛ lbs
Beam on 800 and 1000 lb. Capacity Graduated in ¼ lbs

Nos.	600 CS	800 CS	1000 CS
Capacity, lbs.	600	800	1000
Capacity of Beam, lbs.	50	50	50
Size of Platform, inches	16x22	18½x24	17x24½
Height over all, inches	43	43½	43½
Weight each about, lbs.	145	165	175
Each	$19.50	21.00	21.50

GRADUATIONS IN KILOS AND GRAMS.

Nos.	600 CSM	800 CSM	1000 CSM
Capacity	300	400	500
Size of Platform, Inches	16x22	18½x24	17x24½
Height over all, Inches	43	43½	43½
Weight each about, lbs.	145	165	175
Each	$21.00	21.50	23.50

One in a Case

BAY STATE.

Cast Iron Frame, 11 Wheels; Hardwood Platform; Solid Steel Axles; Polished Brass Notched Beam, Graduated on ½ lbs.; Hanging Poise Weights; Cast Iron Levers; Solid Steel Knife Bearings; Hardwood Pillar and Cap; Cast Iron Weights; All Iron Parts Japanned, Wooden Parts Painted Blue, with Gold Striping; Height 3½ ft.; Fitted with 100 lb Beam.

Extra Weights should not be added to make scales weigh more than intended.

Nos.	B800	B1000
Capacity	800	1000
Size of Platform, Inches	16x26	17x26
Weight each about, lbs	175	185
Each	$17.00	18.00

One in a Case.

PLATFORM SCALES.

VICTOR

Cast Iron Frame and Wheels, Hardwood Platform; Steel, Full Length Axles; Polished Brass Beam and Sliding Poise; Steel Bearings; Hardwood Pillar and Cap; Cast Iron Weights; Iron Parts Japanned; Wooden Parts Painted Light Green; Height 3 ft. 7 in.

Beam on 600 lb. Capacity Graduated in ¼ lbs
Beam on 800, 1000 and 1200 lb. Capacity Graduated in ½ lbs

Nos.	7124V	7128V	7136V	7132V
Capacity, lbs.	[illegible]	800	[illegible]	1200
Capacity of Beam, lbs.	[illegible]	100	100	100
Size of Platform, inches	16x22	16x25	17x26	18x27
Weight each about, lbs.	130	150	160	170
Each	$21.00	23.00	24.00	27.50

One in a Case

FAIRBANKS' STANDARD, SALT MEAT AND FISH.

Heavy Cast Iron Frame, Platform and Wheels; Polished Brass Beam and Sliding Poise, Tempered Steel Knife Bearings, Hardwood Pillar and Cap; Wrought Iron Pillar Brace bolted to Frame and Pillar; Cast Iron Weights; Iron Parts Enameled Black; Wooden Parts Enameled Blue, Striped in Gold; Height over all 3 ft. 9 in.; so constructed as to prevent moisture from reaching the interior of the Scale; if desired, the Scale is Galvanized within and without at extra charge, as shown below.

No. 1350.

No. 1370.

Beam on 400 and 600 lb. Capacity Graduated in ¼ lbs.
Beam on 100 to 2500 lb. Capacity Graduated in ½ lbs

WITH WHEELS.

Nos.	1300	1302	1304
Capacity, lbs.	400	600	1000
Capacity of Beam, lbs.	50	50	100
Size of Platform, inches	14x21½	16x24½	17x26
Weight each about, lbs.	[illegible]	185	210
PLAIN, each	$30.00	35.00	45.00
	30.00	42.00	57.60
GALVANIZED, each	$40.00	47.00	67.00
	48.00	56.40	75.60

Nos.	1308	1308
Capacity, lbs.	1200	1500
Capacity of Beam, lbs.	[illegible]	100
Size of Platform, inches	18½x23	20x25½
Weight each about, lbs.	225	250
PLAIN, each	$55.00	65.00
GALVANIZED, each	67.20	78.00
	87.60	98.00

WITHOUT WHEELS.

Nos.	1350	1352	1354
Capacity, lbs.	400	600	1000
Capacity of Beam, lbs.	50	50	100
Size of Platform, inches	15x21½	16x24½	17x26
Weight each about, lbs.	144	175	210
PLAIN, each	$27.00	33.00	42.00
	32.40	38.40	52.80
GALVANIZED, each	37.00	43.00	57.00
	44.40	52.80	70.80

Nos.	1356	1358
Capacity, lbs.	1500	2000
Capacity of Beam, lbs.	100	100
Size of Platform, inches	18½x23	20x25½
Weight each about, lbs	225	250
PLAIN, each	$55.00	65.00
GALVANIZED, each	62.40	72.00
	82.80	93.60

WITH DROP LEVER AND WHEELS.

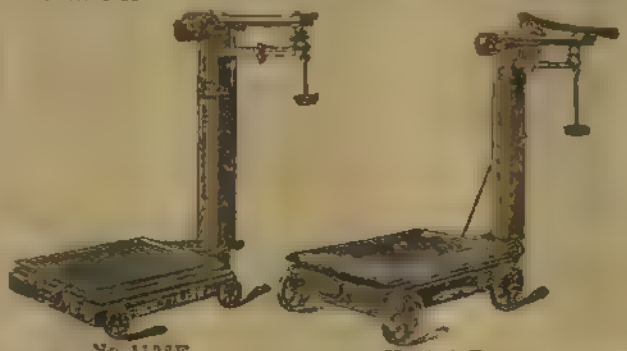
Nos.	1370	1372	1374	1376	1378
Capacity, lbs.	1000	1200	1500	2000	2500
Cap. of Beam, lbs.	100	100	100	100	100
Platform, inches	17x26	18x28	20x28½	20x31	22x34
Wgt. ea. abt., lbs.	218	230	300	450	500
PLAIN, each	$56.00	68.00	78.00	96.00	104.00
	67.20	79.20	93.60	110.40	124.80
GALVANIZED, ea	$71.00	83.00	96.00	115.00	129.00
	85.20	99.60	115.20	135.00	154.80

One in a Case.

PLATFORM SCALES.

FAIRBANKS' STANDARD.

Heavy Cast Iron Frame and Wheels, Steel, Full Length Axles; Polished Brass Beam and Sliding Poise; Tempered Steel Knife Bearings; Hardwood Pillar, Platform and Cap; Cast Iron Weights; Iron Parts Enameled Black; Wooden Parts Enameled Blue, Striped in Gold; Height over all 4 ft.



No. 1128F. No. 1174F.

Beam on 600 lb. Capacity Graduated in ¼ lbs
Beam on 1000 to 2000 lb. Capacity Graduates in ½ lbs

WITH WHEELS.

Nos.	1128F	1126F	1124F	1122F
Capacity, lbs.	600	800	1000	1200
Capacity of Beam, lbs.	50	100	100	100
Size of Platform, inches	16x25	17x26	17x26	20x28
Weight each about, lbs.	175	184	186	225
Each	$33.00	38.00	43.00	49.00
	36.30	41.80	47.30	53.90

Nos.	1120F	1118F	1116F
Capacity, lbs.	1500	2000	2500
Capacity of Beam, lbs.	100	100	100
Size of Platform, inches	31x28	35x33	29x34
Weight each about, lbs.	250	315	345
Each	$56.00	75.00	85.00
	61.60	82.50	93.50

WITH WHEELS AND DROP LEVER.

Nos.	1174F	1172F	1170F
Capacity, lbs.	1000	1200	1500
Capacity of Beam, lbs.	100	100	100
Size of Platform, inches	17x26	20x28	21x28
Weight each about, lbs.	210	235	290
Each	$51.00	59.00	75.00
	56.10	64.90	77.00

Nos.	1188F	1186F
Capacity, lbs.	2000	2500
Capacity of Beam, lbs.	100	100
Size of Platform, inches	29x33	26x34
Weight each about, lbs.	435	475
Each	$82.00	94.00
	90.20	103.40

One in a Case.

FAIRBANKS' STANDARD, DORMANT WAREHOUSE.

Heavy Cast Iron Frame and Pillars; Polished Brass Beam and Sliding Poise, Tempered Steel Knife Bearings; Hardwood Cap and Platform; Cast Iron Weights and Graduated Counter Poise; Iron Parts Enameled Black; Wooden Parts Enameled Red, Striped in Gold; Height over all 5 ft.

WITH SINGLE BEAM.

Beam on 2500 and 3500 lb. Capacity Graduated in ½ lbs
Beam on 5000 lb. Capacity Graduated in 1 lbs.

Nos.	1050F	1048F	1046F
Capacity, lbs.	2500	3500	5000
Capacity of Beam, lbs.	100	100	100
Size of Platform, inches	36x42	42x44	48x48
Weight each about, lbs.	775	945	1350
Each	$113.00	133.00	170.00
	136.00	159.60	204.00

WITH DOUBLE BEAM.

Top Beam on 2500 and 3500 lb. Capacity Graduated in ½ lbs
Bottom Beam on 3500 and 3500 lb. Capacity Graduated in 1 lbs.

Top Beam on 5000 lb. Capacity Graduated in 1 lbs
Bottom Beam on 5000 lb. Capacity Graduated in ½ lbs

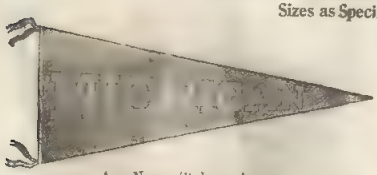
Nos.	1050DF	1048DF	1046DF
Capacity, lbs.	5000	7000	10000
Capacity of Top Beam, lbs.	100	100	100
Capacity of Bottom Beam, lbs.	2000	3000	4000
Size of Platform, inches	37x46	42x44	48x48
Weight each about, lbs.	775	945	1350
Each	$113.00	133.00	180.00
	135.60	159.60	216.00

One in a Case.

University, School and Society Pennants

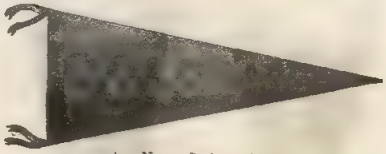
BEST QUALITY FELT. MACHINE STITCHED LETTERS. ANY COMBINATION OF COLORS. LETTERING TO SUIT.

Sizes as Specified—Prices Each.



Any Name, Style as above.

8672	12x30..		$1.40	8674	18x36 .		$2.20
8673	15x36..		1.70	8675	18x48 ..		2.80



Any Name, Style as above.

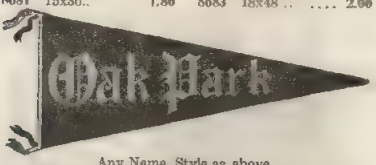
8676	12x20		$1.30	8678	18x36 ..		$2.20
8677	15x36..		1.70	8679	18x48 ..		2.80

Any Name, Style as above.

8680	12x30..		$1.40	8682	18x36		$2.50
8681	15x36..		1.80	8683	18x48 ..		2.00

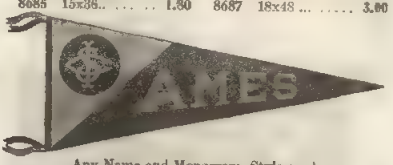
Any Characters with Emblem.

8684	12x30		$1.50	8686	18x36 ...		$2.40
8685	15x36..		1.80	8687	18x48 ...		3.00



Any Name, Style as above.

8688	12x30..		$1.50	8690	18x36 .		$2.40
8689	15x36.		1.90	8691	18x48 .		3.00

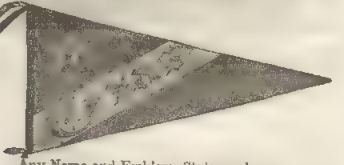


Any Name and Monogram, Style as above.

8692	12x30.		$1.80	8694	18x36 .		$2.80
8693	15x36.		2.20	8695	18x48 .		3.30

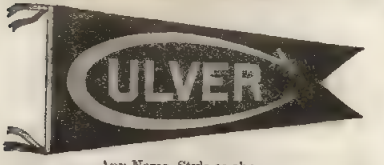
Any Name, Style as above.

8696	12x30..		$1.70	8698	18x36 .		$2.80
8697	15x36		2.20	8699	18x48		3.30



Any Name and Emblem, Style as above.

8700	12x30.		$2.00	8702	18x36		$3.00
8701	15x36.		2.40	8703	18x48 .		3.50



Any Name, Style as above.

8704	12x30.		$1.80	8706	18x36 .		$2.80
8705	15x36..		2.20	8707	18x48		3.30

Any Two Names and Monogram as above

8708	12x30.		$2.20	8710	18x36		$3.70
8709	15x36.		2.80	8711	18x48		4.40

These pennants are made to order, which takes from four to five days and cannot be returned for credit. Write for prices on Table Covers and Special Size Pennants.

The Trade Mark of "The House of Quality" Means a Square Deal for Everybody.

Pennants and Pillow Covers

Best Quality Felt. Machine Stitched Letters. Any Color Combinations. Lettering to Suit. Prices Each.

Any Name, Style as Above

8712	12x30	$1.40
8713	15x36	1.80
8714	18x36	2.20
8715	18x48	2.80

Any Lettering, as Above

8716	12x30	$1.40
8717	15x36	1.70
8718	18x36	2.20
8719	18x48	2.80

Any Lettering, as Above

8720	12x30	$1.80
8721	15x36	2.20
8722	18x36	2.80
8723	18x48	3.30

Any Lettering, as Above

8724	12x30	$3.30
8725	15x36	3.90
8726	18x36	4.40
8727	18x48	5.00

Any Lettering, as Above

8728	12x30	$2.80	8730	18x36	$3.70
8729	15x36	3.00	8731	18x48	4.40

Any Lettering, as Above

8732	12x36	$3.30	8734	18x36	$5.00
8733	15x36	3.90	8735	18x48	6.00

Arm Bands.

Made of high grade felt. Sizes up to 4x8 inches. Specify Round or Diamond Shape.

8736	1 letter, each	$0.50
8737	2 letter or monogram. Each	.80
8738	3 letter or monogram. Each	1.05

Pillow Cover

8739 High grade felt. Pinked edges, laced with satin ribbon, will hold a pillow 20x20 inches. Each $5.50

Pillow Cover

8740 High grade felt, mercerized imitation silk cord; will hold a 20x20-inch pillow. Each $5.00

Sweater Emblems

Sizes, 5 to 10 Inches.

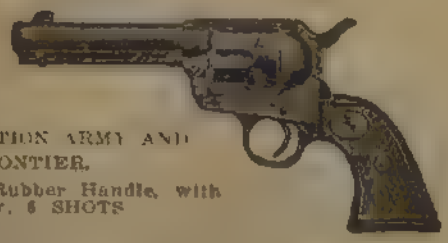
8741	1 letter with border. Each	$0.66	8744	1 letter. Each	$0.85
8742	2 letter or monogram with border. Each	1.05	8745	2 letter monogram. Each	1.05
8743	3 letter or monogram with border. Each	1.45	8746	3 letter monogram. Each	1.45

These Pennants, Pillow Covers, Monograms and Arm Bands are made to order, which requires about 5 days' time and cannot be returned for credit or exchange.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

REVOLVERS.

COLTS.



SINGLE ACTION ARMY AND FRONTIER.

Central Fire, Rubber Handle, with Ejector, 6 SHOTS

32 W. C. F. CALIBER, NICKEL PLATED.

Nos.	0324½A	0325½A
Code Word	Asinine	Asinego
Length of Barrel, Inches	4½	5½
Weight	2 lbs., 10 oz.	2 lbs., 11 oz.
Each	$26.00	26.00

32 W. C. F. CALIBER, BLUED.

Nos.	0324½A	0325½A	0327½A
Code Word	Asinal	Asinego	Asinego
Length Barrel, in.	4½	5½	7½
Weight	2 lbs., 10 oz.	2 lbs., 11 oz.	2 lbs., 13 oz.
Each	$26.00	26.00	26.00

38 W. C. F. CALIBER; BLUED.

Nos.	0384½A	0385½A	0387½A
Code Word	Art	Article	Artist
Length Barrel, in.	4½	5½	7½
Weight	2 lbs., 6 oz.	2 lbs., 7 oz.	2 lbs., 9 oz.
Each	$26.00	26.00	26.00

41 COLT'S CALIBER; BLUED.

Nos.	0414½A	0415½A	0417½A
Code Word	Asylee	Asylum	Asylee
Length Barrel, in.	4½	5½	7½
Weight	2 lbs., 8 oz.	2 lbs., 7 oz.	2 lbs., 9 oz.
Each	$26.00	26.00	26.00

44 W. C. F. CALIBER, BLUED.

Nos.	0445½A	0445½A	0447½A
Code Word	Arise	Armor	Arrange
Length Barrel, in.	4½	5½	7½
Weight	2 lbs., 4 oz.	2 lbs., 6 oz.	2 lbs., 8 oz.
Each	$26.00	26.00	26.00

45 COLT'S CALIBER; BLUED.

Nos.	0454½A	0455½A	0457½A
Code Word	Architect	Ardor	Argue
Length Barrel, in.	4½	5½	7½
Weight	2 lbs., 3 oz.	2 lbs., 4 oz.	2 lbs., 6 oz.
Each	$26.00	26.00	26.00

	Per Pair
Ivory Handles	$18.00
Ivory Handles, One Side Steer Head or Eagle	20.00
Pearl Handles	12.50
Pearl Handles, One Side Steer Head or Eagle	17.50
‡Engraving	To Order, $6.00 and Upwards

Can be furnished to Special Order from factory chambered for 32 Long Colt, 38 Long Colt 41 Long Colt and 44 Russian Cartridges

One in a Cardboard Box.

REVOLVERS.

COLTS

Single Action Army Model, with Ejector, Plain Sights, Central Fire, Rubber Handle; 6 SHOTS.

32 W. C. F. CALIBER; BLUED.

No. 0324½R	4½ in Barrel; Weight 2 lbs. 10 oz.; Code Word, Asinal	$26.00
No. 0325½R	5½ in Barrel; Weight 2 lbs. 12 oz.; Code Word, Asinego	26.00
No. 0327½R	7½ in Barrel; Weight 2 lbs., 15 oz., Code Word, Asinego	26.00

38 W. C. F. CALIBER, BLUED.

No. 0384½R—4½ in. Barrel; Weight 2 lbs., 6 oz.; Code Word, Auger	26.00
No. 0385½R—5½ in. Barrel; Weight 2 lbs., 8 oz.; Code Word, Aurora	26.00
No. 0387½R—7½ in. Barrel; Weight 2 lbs., 11 oz., Code Word, Austrian	26.00

41 COLT CALIBER; BLUED.

Nos.	0414½R	0415½R	0417½R
Code Word	Asylee	Asylum	Asylee
Length Barrel, Inches	4½	5½	7½
Weight	2 lbs. 8 oz.	2 lbs. 9 oz.	2 lbs. 11 oz.
Each	$26.00	26.00	26.00

44 W. C. F. CALIBER, BLUED

Nos.	0411½R	0415½R	0417½R
Code Word	Asylet	Asylond	Asylee
Length Barrel, Inches	4½	5½	7
Weight	2 lbs., 6 oz.	2 lbs., 7 oz.	2 lbs., 9 oz.
Each	$26.00	26.00	26.00

45 COLT CALIBER; BLUED.

Nos.	0454½R	0455½R	0457½R
Code Word	Asylee	Asylum	Asylee
Length Barrel, Inches	4½	5½	7½
Weight	2 lbs., 5 oz.	2 lbs., 6 oz.	2 lbs., 8 oz.
Each	$26.00	26.00	26.00

	Per Pair
Ivory Handles	$12.00
Pearl Handles	17.50

‡*Can be furnished to special order from factory, chambered for 32 Long Colt, 38 Long Colt 41 Long Colt and 44 Russian Cartridges*

One in a Cardboard Box.

SATISFACTION

We buy more goods than any other Hardware concern in the world.
We carry a larger assortment than any other Hardware concern in the world.
We sell more goods than any other Hardware concern in the world.
We have more customers than any other Hardware concern in the world.

Lowest Prices. WHY?
Good Service.
Complete satisfaction of the old-fashioned kind.
We appreciate your business more than any other house in the world.

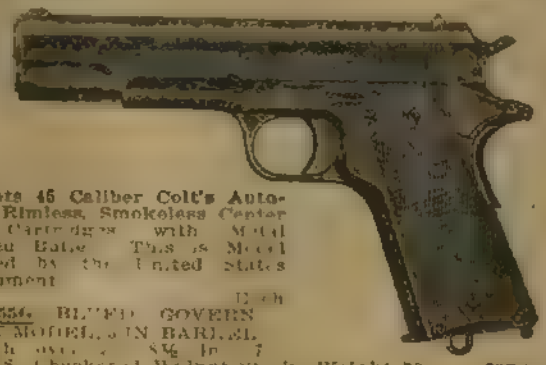
SEND US YOUR MAIL ORDERS

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

AUTOMATIC PISTOLS.

COLTS.

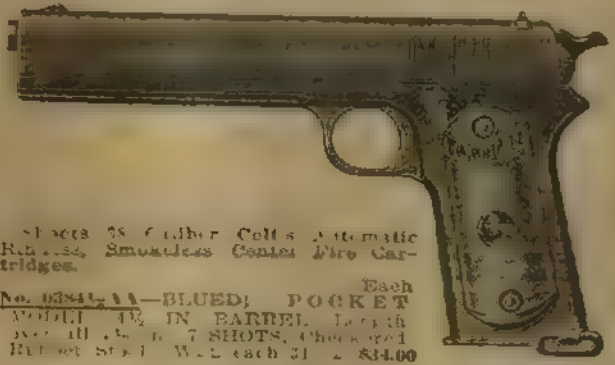
The Action of this Pistol is Automatic except that the Trigger is Pulled for Firing each Shot. The Arm can be instantly taken down for cleaning by simply pulling out the Barrel Bushing, which is retained on the Hinge of the Pistol Frame after the Barrel is removed with a Loaded Magazine, one Cartridge in the Barrel, the Hammer Resting on the Firing Pin and the Safety Lock applied. In Each Shell is cast a new Device, Locking the Chamber and Gas Escape Tube Automatically a few Seconds after the Discharge of the Cartridge. This prevents Escape of Gas at the Breech of the Weapon, and as a consequence, the Recoil is Absorbed in Doing Useful Work that it has for its Usual Disturbing Effect.



Shoots 45 Caliber Colt's Automatic Rimless, Smokeless Center Fire Cartridges with Metal Patched Bullet. This is Model Adopted by the United States Government.

Each

No. 03554. BLUED, GOVERNMENT MODEL, 5 IN. BARREL. Length over all 8½ in. 7 SHOTS. Checkered Walnut Stock. Weight 39 oz. **$37.00**



Shoots 38 Caliber Colt's Automatic Rimless, Smokeless Center Fire Cartridges.

Each

No. 03843AA—BLUED, POCKET MODEL, 4½ IN. BARREL. Length over all 7½ in. 7 SHOTS. Checkered Rubber Stock. Weight each 31 oz. **$34.00**

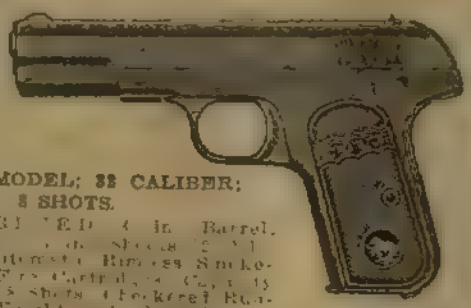
No. 03838M—BLUED MILITARY MODEL, 5 IN. BARREL. Length over all 8½ in. 8 SHOTS. Checkered Rubber Stock. Weight each 32 oz. **$36.00**

Per Pair

Ivory Stocks **$7.00**

Pearl Stocks **6.50**

One in a Cardboard Box.



POCKET MODEL; 32 CALIBER; 8 SHOTS.

No. 03244AA—BLUED, 3½ in. Barrel. Length over all 6 in. Shoots 32 Caliber Colt's Automatic Rimless Smokeless Center Fire Cartridges. Capacity of Magazine, 8 Shots. Checkered Rubber Stocks. Weight each about 23 oz. Each, **$28.00**

POCKET MODEL, .380 CALIBER, 7 SHOTS.

No. 03833AA—BLUED, 3¾ in. Barrel, Length over all 6¾ in. Shoots .380 Rimless Smokeless Cartridges. Capacity of Magazine, 7 Shots; Checkered Rubber Stocks; Weight each 22 ozs. ..... Each, **$30.00**

Per Pair

Ivory Stocks **$8.00**

Pearl Stocks **5.00**

POCKET MODEL 25 CALIBER; 6 SHOTS.

Fitted With Safety Device to Prevent Accidental Discharge.

Length over all 4½ in. Shoots 25 Caliber Rimless Smokeless Center Fire Cartridges; Capacity of Magazine, 6 Shots; Checkered Rubber Stock. Weight each 12 oz.

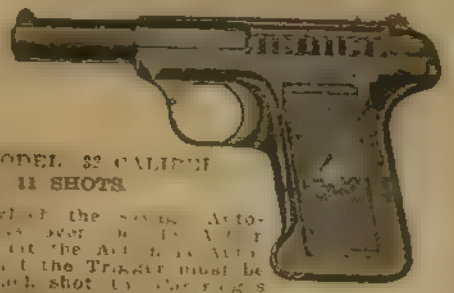
No. 0252AA BLUED, 2 in. Barrel **$20.00**

No. 252AA—NICKEL PLATED, 2 in. Barrel **20.00**

Per Pair

Pearl Stocks **$3.50**

One in a Cardboard Box.



POCKET MODEL 32 CALIBER; 11 SHOTS.

A continuous shot Automatic Pistol in which the Action is Automatic except that the Trigger must be pulled for each shot to discharge a cartridge. Contains a Detachable Magazine inserted in the Handle of the Pistol, and filled with cartridges. The Magazine is made in two parts, the Lower part Automatically withdrawn for the purpose of filling.

The Automatic Operation of the Pistol is effected by the Recoil of the Moving Parts, as the Gas Pressure in the Barrel is absorbed in doing Utilized Work, has no disturbing effect.

No. 03233AA BLUED, 3½ IN. BARREL. Length over all 6 in. Shoots 32 Caliber Colt's Automatic Rimless, Smokeless Center Fire Cartridges. Capacity of Magazine, 11 Shots, with One in the Chamber. Uses 11 Shot Side Plates are made of rubber. **Heavily Checkered; Weight each 19 oz.....Each, $25.00**

One in a Cardboard Box.

HARRINGTON & RICHARDSON SELF-LOADING POCKET MODEL; 25 CALIBER; 7 SHOTS.

This Pistol is Automatic—the only Manipulation necessary is to pull the Trigger for each Shot. Seven Shots can be Aimed and Fired. The Pistol Reloaded again by the same number of Shots. A Magazine is inserted in the Handle of the Pistol, the Metal Sleeve covering the Barrel is drawn back by Hand, which Throws the First Cartridge into the Chamber. This is only Necessary for the First Shot. When the Pistol is Fired the Recoil is utilized to Eject the Empty Shell, Throw a New Cartridge from the Magazine and Lock the Arm, so the Most Rapid Fire is possible. The same Fire Control Working is Impossible. The Weapon is Light, Handy, Safe and Reliable. It Shoots Long Range Pea Bullets to Certain Distance, and its Flat Shape makes Ideal Pocket Weapon.

Per Pair

No. 025 SS BLUED, 2 in. Barrel. Length over all 4 in. Shoots 25 Caliber Rimless Smokeless Center Fire Cartridges. Capacity of Magazine, 7 Cartridges. Uses 7 Shot Side Plates, Checkered Rubber Stocks. Weight 12½ ozs. **$10.00**

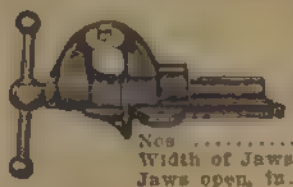
One in a Cardboard Box.

VISES.

COMBINATION PIPE.
PARKER'S PATTERN

Combination Pipe, with Checkered Steel Faced Parallel Jaws and Toothed Double Pipe Jaws, WITH SWIVEL BASE.

Nos.	87	88
Width Jaws, inches	2¾	4½
Jaws open, inches	4	6½
Holds Pipe, inches	⅛ to 2	⅛ to 3
Length, closed, inches	12	17½
Wgt. each, abt., lbs.	41	63
Each	$17.00	20.00



FARMERS' OVAL SLIDE.

Cast Iron Frame, Painted Black; Polished Steel Sliding Bar, Screw and Handle; Hardened and Polished Tool Steel Jaws.

Nos.	F30	F31	F33	F34
Width of Jaws, in.	2½	3	3½	4
Jaws open, in.	3⅝	4	4⅝	4½
Length, closed, in.	11½	13	15	16
Weight each about, lbs.	8½	14	22	30
Each	$2.40	2.90	4.50	4.80

Packed Loose

WITH ANVIL; To Clamp or Screw to Bench as desired; Cast Iron, Japanned, with Polished Slide, Jaws and Anvil Face; Polished Steel Screw and Sliding Lever Handle.

PLAIN CAST JAWS.

Nos.	11	12
Width of Jaws, in.	1⅞	2¼
Jaws open, in.	3⅛	3½
Length, closed, in.	4½	5½
Wgt. per doz. abt., lbs.	70	90
Per dozen	$6.00	12.50

HARDENED CAST JAWS.

Nos.	13	14
Width of Jaws, in.	1⅞	2⅛
Jaws open, in.	2¼	2⅝
Length, closed, in.	6¾	8½
Wgt. per doz. abt., lbs.	54	84
Per dozen	$19.00	32.00

One Dozen in a Bundle.

SOLID BOX BLACKSMITHS'.

Forged Steel Body, Jaws and Hinge Plate, Japanned Finish; Malleable Iron Bench Plate, Malleable Box, Japanned, Polished Steel Screw and Sliding Lever Handle; Steel Spring between Jaws.

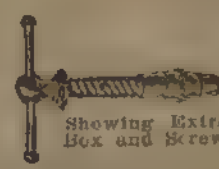
Nos.	35	40	45
Weight each, lbs.	35	40	50
Width of Jaws, in.	3½	4	4½
Jaws Open, in.	3⅝	4	4⅝
Height, in.	40	41	41
Each	$10.00	10.50	11.00
	8.50	8.80	9.30
Nos.	50	55	60
Weight each, lbs.	50	55	60
Width of Jaws, in.	4½	4⅝	5
Jaws Open, in.	4½	4⅝	5
Height, in.	41	41	41
Each	11.00	12.00	13.00
	9.70	10.20	11.40

Vise Complete.

Nos.	65	70	75	80	100
Weight each, lbs.	65	70	75	80	100
Width of Jaws, in.	5	5¼	5½	5½	6
Jaws open, in.	5	5¼	5⅝	5⅝	6
Height, in.	41	41	41	41	41
Each	$14.00	15.00	16.00	17.50	22.00
	12.20	13.00	13.80	15.00	18.60

Packed Loose.

VISE BOXES AND SCREWS.



Showing Extra Box and Screw.

Extra Malleable Boxes, with Steel Screw and Sliding Lever Handle for Solid Box Vises.

Nos.	1	1¼
For Vises Nos.	35 & 40	45 to 55
Length over all, in.	11½	12½
Diam. of Screw, in.	1	1¼
Wgt. each abt., lbs.	10	15
Each	$5.50	6.00
	6.30	7.20

Nos.	2	3	4
For Vises, Nos.	60 to 75	80	100
Length over all, in.	13½	14½	15½
Diameter of Screw, in.	1¼	1½	1¾
Weight each about, lbs.	14	16	18
Each	$6.00	6.50	7.50
	7.20	8.20	12.90

Packed Loose

COMBINED ANVILS AND VISES.

SIMMONS SURE GRIP®.

4 in. Steel Faced Adjustable Jaws; Opens 12 in.; Double Pipe Holding Attachments, Holding Pipe from ⅛ to 2 in.; Solid Screw Box; Face of Anvil 8½x3 in.; Length over all Closed 16½ in.; Open 22 in.; Height 7 in., Painted Red.

No. 8G—SIMMONS SURE GRIP®; COMBINED ANVIL AND VISE; Weight each about 60 lbs. ..... Each, $6.40

Packed Loose, Burlapped.

SIMMONS SURE GRIP®.

4 in. Steel Faced Adjustable Jaws; Opens 12 in.; Double Pipe Holding Attachments, Holding Pipe from ⅛ to 2 in.; Solid Screw Box. Face of Anvil 8½x3 in.; Length over all Closed, 16½ in.; Open 22 in.; Height 7 in.; Painted Red; Drill Attachment can be Removed when not in use. Independent Screw Feed; Drill Rest with Adjustable Step. Takes Square Shank Drills, either KELLY KUTTER or Morse No. 199.

No. 81G—SIMMONS SURE GRIP®; COMBINED ANVIL AND VISE. Weight each about 60 lbs. ..... Each, $9.50

One in a Wood Box

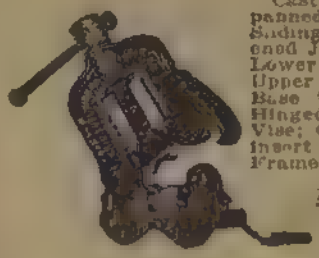
AUSTIN PATTERN.

Hardened Face and Jaws; Sliding Steel Lever Handle; 3 in. with Parallel and Pipe Jaws; Jaws open 4½ in. Each

No. 3A—AUSTIN PATTERN, COMBINED ANVIL AND VISE; Weight each about 34 lbs. .. $3.20

Packed Loose.

PIPE VISES.



Cast Iron Frame and Base, Japanned Finish; Polished Steel Sliding Handle and Screw, Hardened Jaws with Milled Teeth; Two Lower Jaws Stationary and One Upper Jaw Moveable; Holes in Base to Screw to Bench. With Hinged Joint on One Side to Open Vise; Cast Iron Latch and Pin to insert in Hole of Point to hold Frame rigid when closed.

Each

No. 1E—For Pipe ⅛ to 2 in.; Weight over all 9¾ in.; Length of Sliding Handle 6 in.; Size of Base 4¼x5⅝ in.; Wgt. each abt 5 lbs. $2.50

No. 3E—For Pipe ⅛ to 2½ in.; Height over all 13¾ in.; Length of Sliding Handle 8¾ in.; Size of Base 5½x6½ in.; Weight each about 11¾ lbs. 3.90

No. 4E—For Pipe ⅛ to 3½ in.; Height over all 14 in.; Length of Sliding Handle 9¾ in.; Size of Base 5⅞x8 in.; Weight each about 15½ lbs. 5.90

No. 12F—For Pipe ⅛ to 4½ in.; Height over all 16 in.; Length of Sliding Handle 11½ in.; Size of Base 6½x9 in.; Weight each about 23 lbs. 5.90

With Steel Link Chain; Polished Steel Screw and Cast Iron Adjusting Handle at Bottom; Chain Fits in Groove on Side of Frame, Adjusting to the different size Pipe. Height over all 7 in.; Length of Adjusting Handle 6½ in., Size of Base 7½x5½ in.

Each

No. 5/C—For Pipe ⅛ to 2½ in.; Weight each about 11 lbs. $6.40

Packed Loose

PIPE TONGS.

BROWN'S, Adjustable.

Forged Tool Steel, Natural Finish. Tempered Jaws, Adjusted by Heavy Wrought Steel Thumb Screws.

Nos.	1	1½
For Pipe, Size, inches	⅛ to 1	⅛ to 1½
Length over all, inches	17	17
Weight each about, lbs.	3	4
Each	$1.00	1.90

Nos.	2	3	4
For Size Pipe, inches	⅛ to 1½	1 to 2	1½ to 3
Length over all, inches	20	25	37
Weight each about, lbs.	6	10	21
Each	$2.20	3.00	6.40

Packed Loose

PIPE CUTTERS.

KEEN KUTTER THREE WHEEL. Polished Malleable Iron Shank and Frame; Highest Grade Crucible Steel Cutters, Tempered and Polished; Steel Adjusting Rod with Japanned Cast Iron Handle.

Nos.	K1	K2	K3	K4
Cuts Pipe, in..	⅛ to 1	¼ to 2	1½ to 3	3½ to 4
Lgth. over all, closed, in.	13	16	21	25
Weight each about, lbs	2	5	8½	14
Each	$2.20	2.90	4.80	9.00

Packed Loose

Extra Cutter Wheels for KEEN KUTTER Pipe Cutters.

Nos.	KW1	KW2	KW3	KW4
Diameter, inches	1	15/16	1 7/16	1⅝
Weight per dozen about, lbs	1½	1½	3	3
Per dozen	$1.60	1.70	2.30	2.90

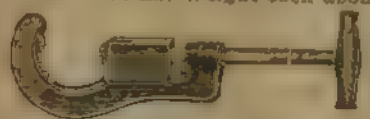
One Dozen in a Cardboard Box

BARNES' PATTERN, THREE WHEEL. Polished Malleable Iron Shank and Frame, Japanned Cast Iron Handle; Cutters Forged from Best Jessop Tool Steel, Tempered and Oil Polished

Each

No. 1B—Cuts Pipe from ⅛ to 1 in.; Length over all Closed 13 in. Wgt. each abt. 3 lbs..... $4.50 $2.40

No. 2B—Cuts Pipe from ⅛ to 2 in.; Lengths over all Closed 16 in.; Weight each about 5 lbs..... 6.00 3.10



Each

No. 3B—Cuts Pipe from 1½ to 3 in.; Length over all Closed 21 in.; Weight Each about 8½ lbs..... $10.00 $5.10

No. 4B—Cuts Pipe from 2½ to 4 in.; Lengths over all Closed 25 in.; Weight each about 14 lbs..... 20.00 10.00

No. 5B—Cuts Pipe from 4 to 6 in.; Length over all Closed 30 in.; Weight each about 22 lbs..... 30.00 15.30

Extra Cutter Wheels For Barnes' Pattern Pipe Cutters.

Nos.	1B	2B	3B	4B
Diameter, inches	1	1 7/16	1 7/16	1⅝
Weight each about, lbs	⅛	⅛	⅛	⅛
Each	$0.25	.30	.40	.50
12		.16	.20	.24

SAUNDERS' ROLLER. Japanned Malleable Iron Shank and Frame, Japanned Cast Iron Handle; One Cutter and Two Rollers Forged from Tool Steel, Tempered.

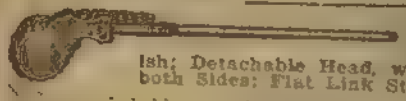
Nos.	S 1	S 2	S 3
Cuts Pipe, Inches	⅛ to 1	1 to 2	2 to 3
Length over all, inches	16	20½	26½
Weight each about, lbs	3½	6½	12
Each	$3.00	4.50	11.00
	1.70	2.50	5.00

Extra Cutter Wheels for Saunders' Roller Pipe Cutters.

Nos.	S 1	S 2	S 3
Diameter, inches	1 1/16	1 7/16	1⅝
Weight each, ounces	4	8	4
Each	$0.24	.32	.60
12	.12	.16	.30

Packed Loose.

CHAIN PIPE WRENCHES.



VICTOR. Forged from Tool Steel, Natural Finish; Detachable Head, with Milled Teeth on both Sides; Flat Link Steel Chain.

Nos.	10V	11V
For Pipe, in.	⅛ to ⅝	⅛ to 1½
Length over all, in.	14	20
Length Chain, in.	9½	12½
Average Breaking Strain, Chain, lbs.	3600	6700
Weight each about, lbs.	1⅝	4⅜
Each	2.50	3.50
	3.18	4.30

Nos.	12V	13V
For Pipe, in.	⅛ to 2½	⅜ to 4
Length over all, in.	28	38
Length Chain, in.	17½	22½
Average Breaking Strain, Chain, lbs.	9800	12500
Weight each about, lbs.	9	17½
Each	$5.00	7.00
	6.10	8.50

Nos.	13½V	14V	15V
For Pipe, in.	1 to 6	1½ to 8	2 to 12
Length over all, in.	44	50	64
Length Chain, in.	31	39	54½
Av. Breaking Strain, Chain, lbs.	14300	15700	21800
Weight each about, lbs	21	29	49
Each	$9.00	11.00	18.00
	11.30	13.00	22.60

Packed Loose.

WRENCHES.

KEEN KUTTER BLACK JACK*; SOLID HANDLE, BLACK.

Forged from Extra Quality Tool Steel, Hardened Jaws, SHANK EXTENDS THROUGH END OF HANDLE with Steel Reinforced Wood Grips riveted to Handle with Two Heavy Iron Rivets, Metal Lined at Handle Polished; Steel Adjusting Screw.

Nos.	KB6	KB8	KB10	KB12
Length, Inches	6	8	10	12
Jaws Open, Inches	1	1 3/16	1 7/16	1 11/16
Weight per dozen about, lbs.	9	16	24	34
Per dozen	$9.50	11.00	13.00	14.50

Nos.	KB15	KB18	KB21
Length, Inches	15	18	21
Jaws Open, Inches	2 3/16	2 7/16	2 11/16
Weight per dozen about, lbs.	57	75	102
Per dozen	$25.50	31.00	37.00

Nos. KB6 to KB12, One-half Dozen; KB15 to KB18, One-third Dozen; KB21, One-twelfth Dozen in a Wood Box

KEEN KUTTER BLACK JACK*; STEEL HANDLE, BLACK.

Forged from Extra Quality Tool Steel; Hardened Jaws; Shank Handle and Outside Jaw Drop-forged from One Piece of Steel; Steel Adjusting Screw.

Nos.	KSH6	KSH8	KSH10	KSH12
Length, Inches	6	8	10	12
Jaws Open, Inches	1	1 3/16	1 7/16	1 11/16
Wgt. per doz. abt., lbs	10	16	24	34
Per dozen	$9.50	11.00	13.00	14.50

Nos.	KSH15	KSH18	KSH21
Length, Inches	15	18	21
Jaws Open, Inches	2 3/16	2 7/16	2 11/16
Weight per dozen about, lbs.	57	75	102
Per dozen	$25.50	31.00	37.00

Nos. KSH6 to KSH12, One-half Dozen; KSH15 to KSH18, One-third Dozen; KSH21, One-twelfth Dozen in a Wood Box.

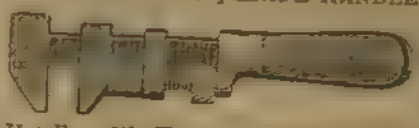
KEEN KUTTER BLACK JACK*; FIELD.*

Forged from Extra Quality Tool Steel; Hardened Jaws; Shank, Handle and Outside Jaw Drop-forged from One Piece of Steel; Steel Adjusting Screw. Hole in End of Handle for Hanging the Wrench up.

Nos.	KF6	KF8	KF10
Length, Inches	6	8	10
Jaws Open, Inches	1	1 3/16	1 7/16
Weight per dozen about, lbs	10½	19½	28
Per dozen	$10.00	11.50	13.50

One-half Dozen in a Wood Box.

OAK LEAF*; KNIFE HANDLE, BLACK.



Forged from Special Quality Steel; Hardened Jaws; Shank, Handle and Outside Jaw Drop-forged from One Piece of Steel; Steel Adjusting Screw. Riveted to Handle with Heavy Iron Rivet Steel Adjusting Screw.

Nos.	ES 6	ES 8	ES 10	ES 12
Length, Inches	6	8	10	12
Jaws Open, Inches	1	1 3/16	1 7/16	1 11/16
Weight per dozen about, lbs	9	15	24	38
Per dozen	$8.50	9.50	12.50	14.50

Nos.	ES 15	ES 18	ES 21
Length, Inches	15	18	21
Jaws Open, Inches	2 3/16	2 7/16	2 11/16
Weight per dozen about, lbs.	57	73	104
Per dozen	$24.00	30.00	35.00

Nos. ES 6 to ES/12, One-half Dozen; ES/15 to ES/18, One-third Dozen; ES/21, One-twelfth Dozen in a Wood Box

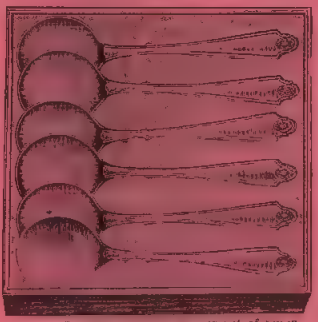
Table of Weights and Contents of Cases.

Length in Ins.	6	8	10	12	15	18	21
Dozen in a Case	6	6	6	3	2	2	1
Weight of Case, lbs	56	110	182	256	190	170	130

Community Silver

Georgian Pattern.

Georgian, our latest design in Community Silver, is a masterpiece of artistic designing. Simple but exquisitely beautiful in outline and ornamentation, it rivals Sterling Silver in distinction, and harmonizes perfectly with the richest of table settings.



C141 Georgian Soup Spoons, per Set of Six in Lined Box **$7.80** per Set.

C144 Georgian Cream Ladle, **$1.85** Each.
C145 Georgian Gravy Ladle, **$2.44** Each.
C146 Georgian Medium Soup Ladle, **$6.60** Each.
C147 Georgian Berry Spoon, **$2.70** Each.

Georgian Pattern, Hollow Handle.
C150 Medium Knives, **$23.20** per Dozen.
C151 Medium Forks, **$23.20** per Dozen.
C152 Dessert Knives, **$22.35** per Dozen.
C153 Dessert Forks, **$22.35** per Dozen.

Georgian Pattern,
C136 Tea Spoons, **$7.30** per Dozen.
C137 Dessert Spoons, **$13.30** per Dozen.
C138 Table Spoons, **$14.65** per Dozen.
C139 Iced Tea Spoons, In Lined Box, **$4.80** per Set of Six.
C140 Coffee Spoons, In Lined Box, **$3.65** per Set of Six.

C142 Georgian Butter Knife and Sugar Shell, Plain, in Lined Box, **$2.60** per Set.

C148 Georgian Cold Meat Fork, **$1.75** Each.
C149 Georgian Pickle Fork, **$1.49** Each. In Lined Boxes.

C143 Georgian Individual Salad Forks, Set of Six in Lined Box, **$7.10** per Set.

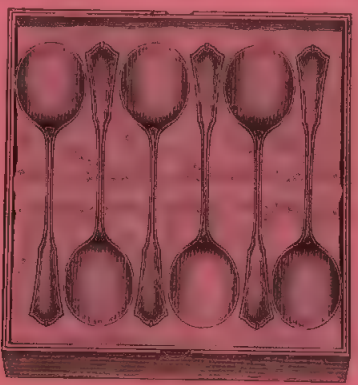
The Above Prices are Subject to the Regular Discount.

"THE HOUSE OF QUALITY"

Reliance Plate—Oneida Community

Exeter Pattern. Guaranteed for **Twenty-Five** Years.

The Exeter, like all Oneida Community Reliance Plate designs, is made of absolutely durable plate and is guaranteed for 25 years. This guarantee, backed by the Oneida Community means not only durable plated ware, but it means the best silver plated ware which can possibly be made for the price.



C158
Exeter Soup Spoons,
Set of 6, in Lined Box,
$4.20 per Set

Exeter Pattern.
C154 Tea Spoons,
Per Dozen **$3.60**
C155 Dessert
Spoons Per Doz **$6.60**
C156 Tablespoons,
Per Dozen **$7.20**
C157 Coffee Spoons,
Per Set of Six in Lined
Box... .....**$1.85**

C159
Exeter Individual Salad
Forks, Six in Lined Box
$5.00 per Set

Exeter Pattern.
C162 Cream Ladle,
$1.15 Each
C163 Gravy Ladle,
$1.50 Each
C164 Medium Ladle,
$4.20 Each
C165 Berry Spoons,
$2.10 Each
C166 Butter Knife and
Sugar Shell Set,
$1.45 per Set
All of Above in Lined
Boxes.

Exeter Pattern,
Solid Handle,
Per Doz.
C167 Medium
Knives, **$8.50**
C168 Medium
Forks, **$8.50**
C169 Dessert
Knives, **$8.05**
C170 Dessert
Forks, **$8.05**

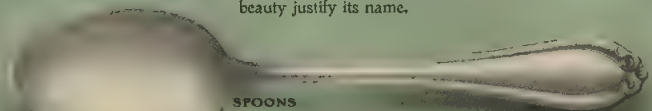
C160 Exeter Cold Meat Fork, **$1.30** Each
C161 Exeter Pickle Fork..... **$1.15** Each
In Lined Boxes.

The Above Prices Are Subject to the Regular Discount.

"THE HOUSE OF QUALITY"

COMMUNITY SILVER

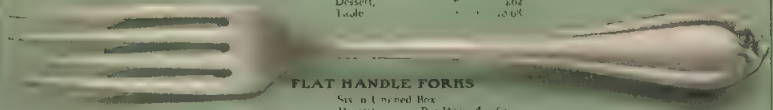
The appeal of the Classic pattern is to the refined taste. Its simplicity, grace and beauty justify its name.



SPOONS

Six in Lined Box
After Dinner Coffee, Per Doz. $6.34 — Gilt After Dinner Coffee, Per Doz., $8.18

Six in Lined Box
Five O'Clock Tea, " " 5.34 — Gilt Five O'Clock Tea " " 8.18
Tea, " " 5.34
Dessert, " " 7.62
Table " " 10.68



FLAT HANDLE FORKS

Six in Lined Box
Dessert Per Doz. $ 9.62
Medium, " " 10.68

HOLLOW HANDLE [illegible]

Six in Lined Box Per Set $8.50

HOLLOW HANDLE FRUIT KNIFE

Six in Lined Box Per Set 5.87

HOLLOW HANDLE BUTTER SPREADER

Six in Lined Box Per Set $ 5.

SOLID HANDLE EMBOSSED STEEL KNIVES

Six in Fitted Box

	Per Doz.
Medium,	$ 9.
Dessert,	" 7.
Medium, Serrated and Swaged,	" 7.
Dessert,	" 5.50
Fruit,	" " 5.50

HOLLOW HANDLE KNIVES

Six in Lined Box

	Per Doz.
Luncheon	$ 12.
Dessert	10.64
Medium, Serrated and Swaged,	9.
Dessert,	" " 10.68

HOLLOW HANDLE FORKS

Six in Lined Box

	Per Doz.
Medium,	$ 10.
Dessert	9.62

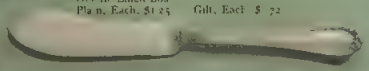
HOLLOW HANDLE PIE SERVER

One in Lined Box Each, $2.47

Reproduction same size

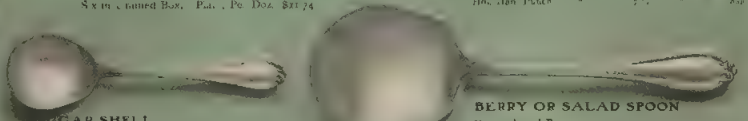
SOLID MEAT FORK

One in Lined Box
Plain, Each, $1.23 Gilt, Each $ 1.72



BUTTER KNIFE

Six in Lined Box, Plain, Per Doz. $11.74



SUGAR SHELL

Six in Lined Box
Plain, Per Doz., $ 9.56 Gilt, Per Doz., $11.52 Reproduction one half size

LADLES

One in Lined Box

	Plain, Each	Gilt, Each,
Cream,	$ 1.39	$1.81
Gravy,	" " 1.78	2.19
Oyster,	" 3.56	4.23
Soup or Punch,	" 4.08	5.56
Medium,	" 4.45	5.70
Large Soup,	" 6.22	6.95
Hollow Punch	" 7.12	Each

BERRY OR SALAD SPOON

One in Lined Box
Plain Each $2.02 Gilt, Each $2.73

CLASSIC DESIGN

Community Silver Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

COMMUNITY SILVER

SOUP SPOON
Six in Lined Box. Per Doz. $10.18

BOUILLON SPOON
Six in Lined Box
Plain Per Set $4.63

ORANGE SPOON
Six in Lined Box
Plain Per Set, $3.56
Gilt, Per Set, $4.54

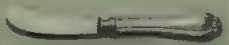
ICED TEASPOON
Six in Lined Box
Plain Per Doz., $7.38
Gilt, " " 10.32

ICE CREAM FORK
Six in Lined Box
Plain Per Set, $3.02
Gilt, " 5.70

MUSTARD SPOON
Six in Lined Box
Plain, Per Set, $3.38

INDIVIDUAL SALAD FORK
Six in Lined Box
Plain, Per Set, $5.34 Gilt, Per Set $7.12

FLAT HANDLE BUTTER SPREADER
Six in Lined Box
Plain, Per Set $4.45



HOLLOW-HANDLE BUTTER SPREADER
Six in Lined Box
Per Set, $7.70

BERRY FORK
Six in Lined Box
Plain, Per Set, $3.02
Gilt, Per Set, $4.45

HOLLOW HANDLE FRUIT KNIFE
Six in Lined Box
Per Set $7.70

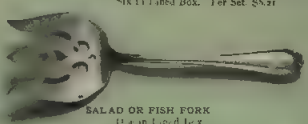
SUGAR TONGS
One in Lined Box
Each $1.43

PICKLE FORK
One in Lined Box.
Plain, Each $1.07. Gilt, Each $1.37

OYSTER FORK
Six in Lined Box
Plain, Per Set, $3.49

HOLLOW HANDLE ORANGE KNIFE
Six in Lined Box. Per Set $8.21

HOLLOW HANDLE CHEESE SCOOP
One in Lined Box Each $2.52



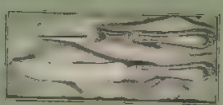
SALAD OR FISH FORK
One in Lined Box
Plain Each, $2.75 Gilt, Each, $3.38

HOLLOW HANDLE PIE OR ICE CREAM SERVER
One in Lined Box Each, $2.47.

Reproduction one-third size.

THREE PIECE CHILD SET
One Set in Lined Box
Hollow Handle Knife Per Set $3.56
Flat Handle Knife " " .84
Embossed Steel Fork " " .44

LARGE CARVING SET
One Set in Lined Box
Per Set $12.40



SMALL CARVING SET
One Set in Lined Box
Per Set $9.24

Reproduction one-fourth size

CLASSIC DESIGN

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COMPASSES

Per Dozen
No. 1770/35—1¼ in. Paper Dial; Brass Open Case with Ring; Weight per Dozen 4 ozs. . . . $8.00
Half Dozen in a Package

Per Dozen
No. 1850/2—2 in. Paper Dial; Brass Case with Cover; Weight per Dozen 10 ozs. . . . $5.00
Half Dozen in a Package

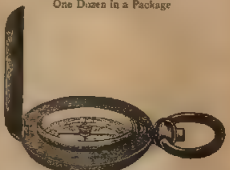
Per Dozen
No. 1752/45—1¾ in. Metal Dial; Brass Open Case with Ring, with Stop and Jeweled Needle; Weight per Dozen 11 ozs. . . . $19.80
One Dozen in a Package

Per Dozen
No. 1771/45—1¾ in. Paper Dial; Brass Case with Cover; Weight per Dozen 7 ozs. . . . $7.80
Half Dozen in a Package

Per Dozen
No. 1763/40—1½ in. Metal Dial, Brass Case with Cover; with Stop; Weight per Dozen 18 ozs. . . . $17.00
One Dozen in a Package

Per Dozen
No. 1621½—1¾ in. Polished Metal Dial, Nickel Plated Brass Hunting Case with Ring, with Stop and Jeweled Needle; Weight per Dozen 14 ozs. . . . $36.00
Half Dozen in a Package

Per Dozen
No. 1775/40—1½ in. Paper Dial; Nickel Plated Brass Hunting Case with Ring; Weight per Dozen 7 ozs. . . . $14.85
Half Dozen in a Package



Per Dozen
No. 159/45—1¾ in. Paper Dial; Nickel Plated Brass Hunting Case with Ring, Stop and Jeweled Needle; Weight per Dozen 11 ozs. . . . $24.20
Half Dozen in a Package

Per Dozen
No. 1774/40—1½ in. Polished Metal Dial; Nickel Plated Brass Open Case; Weight per Dozen 10 ozs. . . . $9.90
Half Dozen in a Package

Per Dozen
No. 1718/45—1¾ in. Metal Dial; Nickel Plated Brass Hunting Case with Ring; Stop and Jeweled Needle, Weight per Dozen 22 ozs. . . . $44.00
One Dozen in a Package

Per Dozen
No. 1752/76—2½ in. Metal Dial; Wood Case 3x3 in.; Hinged Cover with Hook, Stop and Jeweled Needle; Weight per Dozen 8½ lbs. . . . $44.00
One Dozen in a Package

Per Dozen
No. 1750/70—2½ in. Cardboard Dial; Wood Case 3x3 in.; Hinged Cover with Hook; with Stop, no Needle; Weight per Dozen 2½ lbs. . . . $15.70
One Dozen in a Package

"Diamond Edge is a Quality Pledge"

COMPASSES

KRAEMER PATHFINDER

Open Face Solid Brass Case, Highly Polished and Lacquered, Moisture and Dust Proof, With Brass Wire Loops to Attach Fobs, Black Velvet Finish Aluminum Dials and Direction Points, with Pearl Luminous Figures Making it Possible to Read the Compass at Night Without the Aid of a Light; All Points of Directions Seen at a Glance. Needles Made of Especially Prepared Magnetic High Carbon Steel, Heavy Tool Steel Pivots with Large Jewel Cap Bearings. A Handsome Fob Accompanies Each Compass Guaranteed Against All Imperfections in Manufacture.

1½ inch Four Point Needle

Per Dozen

No. 6—1¾ inch Case; Sunk Glass Top with Brass Protecting Rim, Wt. per Doz. 1¼ lbs. $44.00

No. 6—1¾ inch Case; Raised Beveled Glass Top; Weight per Dozen 1 lb 44 00

1⅝ inch Four Point Needle

No. 2—2 inch Case, Sunk Glass Top with Brass Protecting Rim, Weight per Dozen 3 lbs 50 60

One Dozen in a Box

Cut Shows Fob which Accompanies Each Compass; National Sportsman Gilt Emblem. Gilt Buckle, Creased Edge Russet Strap.

1½ inch Floating Disc Dial

Per Dozen

No. 3—1¾ inch Case; Sunk Glass Top with Brass Protecting Rim; Wt. per Doz. 1¼ lbs.

No. 5—1¾ inch Case, Raised Beveled Glass Top Weight per Dozen 1 lb 44 00

1⅝ inch Floating Disc Dial

No. 1—2 inch Case; Sunk Glass Top with Brass Protecting Rim; Weight per Dozen 3 lbs 50 40

One Dozen in a Box

DRAM FLASKS

Best Quality Heavy Flint Glass Flasks; Genuine Leather Covers, Stitched on by Hand, Cork Lined Screw Caps

Black Seal Grain Leather; Nickel Plated Screw Caps; Without Drinking Cup

Nos	6234	6235	6236
Capacity, Pints	¼	½	1
Weight per Dozen, Lbs	6	8	12
Per Dozen	$13 20	16 50	22 00

Nickel Plated Screw Caps; with Nickel Plated Britannia Metal Drinking Cups.

Black Morocco Grain Leather

Nos	6149	6150	6204
Capacity, Pints	¼	½	1
Weight per Dozen, Lbs	9	12	15
Per Dozen	$17 00	20 00	29 70

Russet Pigskin Leather

Nos	6151	6152	6205
Capacity, Pints	¼	½	1
Weight per Dozen, Lbs	9	12	15
Per Dozen	$23 65	27 50	38 00

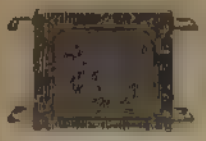
Removable Leather Cases; Heavy Alligator Grain Leather; Assorted Colors, Gray and Brown; Enameled Metal Glove Fasteners; Nickel Plated Screw Caps, with Nickel Plated Britannia Metal Drinking Cups.

Nos	6066	6067	6068
Capacity, Pints	¼	½	1
Weight per Dozen, Lbs	9	12	15
Per Dozen	$22.00	25.00	27.50

Twelfth Dozen in a Box

‡FURNACE DOORS.

FOR BRICK OR STONE FURNACES



Each

‡No. 1—DOOR AND FRAME; Cast Iron; 11½ in. Wide, 11 in. High; Frame 14 in. Wide 14½ in. High, with Two 2½ in. Lugs on each side for Support in Masonry; Weight each about 38 lbs. $4.00

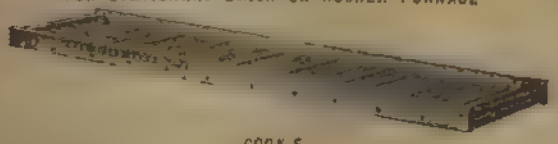
Each

‡No. 2—DOOR AND FRAME; Cast Iron; Door 15 in. Wide, 12½ in. High; Frame 18 in. Wide, 15½ in. High, with Two 2½ in. Lugs on each side for Support in Masonry; Weight each about 75 lbs. $6.00

Packed Loose.

‡EVAPORATOR PANS.

FOR STATIONARY BRICK OR ROCKER FURNACE



COOK'S

Made of the Best Quality Galvanized Sheet Iron or Pure Copper, of Thickness Proportionate to the Length of the Pan; Heavily Bound, Riveted and Soldered. With set Buckle, Bag or Warp; Two Skimmers go with each Pan.

NOTE—Pans will fit any Rocker Furnace the same Number as the Pans; For instance a No. 1 Pan will fit a No. 1 Rocker Furnace.

‡GALVANIZED IRON

Nos.	‡1	‡2	‡4
Size, inches	44x12	44x20	44x28
Depth, inches	2	2	3
Divisions or Ledges in each	11	15	17
Estimated Capacity for day of 12 hrs., Gallons Syrup	30 to 50	44 to 52	50 to 80
Weight each about, lbs.	84	107	119
Each	$10.50	$11.50	$13.50

Nos.	‡5	‡6	‡7
Size, inches	44x12	44x14	44x16
Depth, inches	2	3	3
Divisions or Ledges in each	20	23	30
Estimated Capacity for day of 12 hrs., Gallons Syrup	3 to 120	100 to 140	125 to 175
Weight each about, lbs.	137	156	191
Each	$16.00	18.00	22.00

‡COPPER

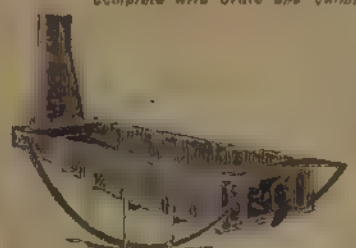
Nos.	‡2 C	‡3 C	‡4 C
Size, inches	44x12	44x20	44x28
Depth, inches	2	3	3
Divisions or Ledges in each	11	15	17
Estimated Capacity for day of 12 hrs., Gallons Syrup	30 to 40	40 to 52	50 to 80
Weight each about, lbs.	100	135	150
Each	$27.00	32.50	40.00

Nos.	‡5 C	‡6 C
Size, inches	44x12	44x14
Depth, inches	2	3
Divisions or Ledges in each	20	23
Estimated Capacity for day of 12 hours, Gallons Syrup	75 to 120	100 to 140
Weight each about, lbs	140	195
Each	$46.00	55.00

‡ROCKER FURNACES.

COOK'S

Complete with Grate and Chimney; WITHOUT PAN



Made of Cast Iron and Best Quality Sheet Iron, Heavily Bound and Riveted; Strongly Made; The whole Mounted on Rockers of Heavy Angle Iron, thus furnishing a Complete Portable Furnace of Iron, and yet so Light that it can be Easily Handled by Two Men

Nos.	‡3	‡3	‡4	‡5
Extreme width, inches	30	30	30	30
Extreme length, inches	84	109	123	147
Length of Furnace on which Pan rests, in	71	89	108	126
Weight each about, lbs.	280	320	340	365
Each	$17.70	21.00	24.00	27.00

Packed Loose.

‡CANE MILLS.

SIMMONS WONDER.

DIRECTIONS FOR OPERATING CANE MILLS.

1. The Mill MUST BE LEVEL AND RIGID. To secure it in position, paste six ft. long set three ft in the ground and thoroughly braced

2. TO OBTAIN PROPER ADJUSTMENT. Adjust the rolls parallel to each other, the feed-roll from one-quarter to one-half in. from the main roll; the other should slightly touch the main roll when empty; after trial, the proper adjustment can be made. Do not try to force the set-screws up when there is cane in the mill

3. OIL REGULARLY AND FREELY - The vertical mills have oil tubes passing down through the rolls, and by using FLUID LARD OIL FREELY on the upper journals the oil flows to the lower journals; see that these tubes are kept open, and that the oil is applied regularly and freely. NEVER USE MINERAL OILS ON A CANE MILL.

4. FEED EVENLY AND CONSTANTLY Regular feeding is necessary in order to get the best results. When all the space of the rolls is properly filled with cane a greater per cent of the juice is extracted than when there are unfilled spaces, or spaces only partially filled. Use the Feed-Box, and in addition place a board about 2 ft. long on a level with the bottom plate, to rest the cane on as it enters the mill; feed butts foremost.

5. KEEP ALL THE BOLTS SCREWED UP TIGHT. Owing to the constant wrenching of the mill the stay bolts are liable to become loosened

The circle where the horse walks should be level, the sweep 12 to 13 ft from the center of the mill and extend beyond, to partially balance

Horse-Power; Three Roll Vertical Pattern; Painted Blue, Striped and Varnished. Heavy Cast Iron Frame, Top and Bottom Plates, Double Slanting Flanged Sweep Cap and Shaft Boxes, Paneled; Extra Braced One Large and Two Small Cast Iron Turned Serrated Face Rolls, Oiled, Geared, with Heavy Turned Steel Shaft running in Adjustable Brass Bearings; Main Roll Flanged at Top and Bottom, preventing the Cane from passing up or down; Encased Non-Clogging Gearing; Frame Bolted through at Corners by Four Heavy Steel Bolts, Double Convergent Slop Feed Guide, placed to use the full length of the Rollers; Top Shaft Boxes have Hinged Sliding Cover, removable for Oiling or Cleaning; Each Mill complete as shown in Cut, without Sweeps but with Oil Can, Wrench and Extra Bolts with Washers for Bolting Down the Flanged Base.

Each

‡No. W10—LIGHT, ONE-HORSE. Estimated Capacity 40 Gallons per hour, Height of Frame 17 in., Over all 25½ in.; Extreme Length 22¾ in.; Width 26½ in.; Main Shaft 2⅛ in. in Diameter, with Sweep-Cap 17 in. Long, Main Roll 10¾ in. in Diameter; Small Rolls 6½ in. in Diameter; all Rolls 5½ in. Long; Weight each about 434 lbs. $32.50

‡No. W1—ONE-HORSE. Estimated Capacity 50 Gallons per hour, Height of Frame 17 in., Over all 25½ in., Extreme Length 25 in.; Width 22½ in.; Main Shaft 2⅜ in. in Diameter, with Sweep-Cap 17½ in. Long; Main Roll 11½ in. in Diameter; Small Rolls 6¾ in. in Diameter; All Rolls 5⅛ in. Long; Weight each about 540 lbs. 42.00

‡No. W2—LIGHT, TWO-HORSE; Estimated Capacity 80 Gallons per hour; Height of Frame 20½ in., Over all 32 in.; Extreme Length 28 in.; Width 24½ in.; Main Shaft 2⅝ in. in Diameter, with Sweep-Cap 20⅝ in. Long; Main Roll 12½ in. in Diameter; Small Rolls 7⅛ in. in Diameter; All Rolls 7½ in. Long; Weight each about 780 lbs. 58.00

‡No. W3—TWO-HORSE; Estimated Capacity 100 Gallons per hour; Height of Frame 23 in., Over all 34½ in.; Extreme Length 30 in.; Width 28½ in.; Main Shaft 2¾ in. in Diameter, with Sweep-Cap 20¾ in. Long; Main Roll 14⅛ in. in Diameter; Small Rolls 8 in. in Diameter; All Rolls 8½ in. Long; Weight each about 880 lbs. 77.00

‡No. W4—HEAVY, TWO-HORSE; Estimated Capacity 120 Gallons per hour; Height of Frame 26½ in., Over all 40 in.; Extreme Length 29½ in., Width 33 in.; Main Shaft 3 in. in Diameter, with Sweep-Cap 22¼ in. Long; Main Roll 18 in. in Diameter; Small Rolls 9⅞ in. in Diameter; All Rolls 12 in. Long; Weight each about 1300 lbs. 105.00

Shipped Loose; Knocked Down.

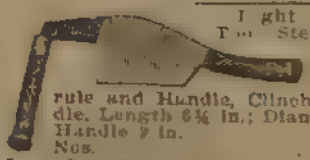
By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date and hold your trade at home

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

COOPERS' TOOLS.

BARTONS'.

CHAMFER KNIVES.



Light Hand, Blade Forged from Tool Steel, Tempered and Polished; One Polished Walnut Handle Polished Steel Ferrule, Tang extends through Ferrule and Handle, Clinched at End; One Steel Handle. Length 6¾ in.; Diameter 1⅛ in Length of Wood Handle 2 in.

Nos.	1315	1316
Length of Blade, inches	¾	⅝
Weight per dozen about, lbs.	2	2
Per dozen	$1	$2
	31 50	38.30

One-twelfth Dozen in a Package.

SPOKE SHAVES.

Japanned Cast Iron Frame; Tool Steel, Tempered and Polished Cutter, with Cap Steel Adjusting Screws and Ferrules, Polished Walnut Handles; Length of Handles 5 in.; Length over all 10½ in.

No. 138—Width of Cutter 3 in., Weight per dozen about 27 lbs. Per Dozen, $15 00 $25 50

One-half Dozen in a Package

LEVELERS.

Oil Finished Apple Wood Frame and Cap; Tool Steel, Tempered and Polished Cutter, Length 13 in., Width 3 in.

Per Dozen

No. 102—Size of Cutter 2⅜ in.; Weight per dozen about 30 lbs. $15.00 $25.50

One-twelfth Dozen in a Package.

HANDLED ADZES.

Forged from Tool Steel, Tempered, Polished and Japanned; Polished Apple Wood Handle; Steel Bolt extends through Head, Socket and Handle Secured at End by Steel Washer and Nut; Length of Handle 7½ in.

Per Dozen

No. 123—TIGHT COOPERS', Width of Cut 3¼ in.; Length of Head 9½ in.; Weight per dozen about 47 lbs. $30 00 $51.00

No. 124A—BARREL; Width of Cut 3⅛ in.; Length of Head 8½ in.; Wgt per doz about 43 lbs. 28.50 48.50

No. 125—FLOUR BARREL; Width of Cut 3¾ in.; Length of Head 8 in.; Wgt. per dozen about 26 lbs. .27.00 45.90

One-twelfth Dozen in a Package

COOPERS' TOOLS.

"V" IRONS.

Forged from Tool Steel, Tempered and Polished Bit, Natural Finish Leg.

No. 143—Cuts Grooves up to ¼ in. Wide; Weight per dozen about 1 lb. .....Per Dozen, $2 00 $3.10

One Dozen in a Package.

HOOP DRIVERS.

FORGED FROM TOOL STEEL; Polished Bit; Japanned Finished Socket; Width of Bit 2½ in., Thickness of Bit ¼ in.; Width of Socket 3⅛ in., Height over all 4 in. Per Dozen

No. 166—Weight per dozen about 15 lbs. $11 25 $19.20

Forged from Tool Steel, Polished Bit; Japanned Finished Socket; Width of Bit 1½ in., Thickness of Bit ⅛ in.; Height over all 4½ in

Per Dozen

No. 165—NANTUCKET, Weight per doz about 15 lbs. $7 50 $12.80

One-half Dozen in a Package.

PLAIN HICKORY, Japanned Cast Iron Ring on End of Handle; Width of Bit 3⅛ in.; Length of Bit 4 in.; Thickness of Bit 1 in.; Length of Handle 5 in

Per Dozen

No. 169—Weight per dozen about 10½ lbs. $3.50 $6.50

Packed Loose.

FROES.

Soft Steel Body, Adze Eye, with Special Crucible Steel Laid Cutting Edge, Oil Tempered

OZARK, STAVE—Natural Finish.

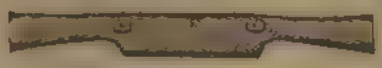
Nos.	358	3510
Length of Cut, inches	8	10
Width, inches	2¾	2¾
Weight per dozen about, lbs.	39	37
Per dozen	$11 00	11 50

ALTAMBURG, BOARD—Oil Finish, Painted Back, Polished Edge.

Nos.	4510	4512
Length of Cut, inches	10	12
Width, inches	2½	2½
Weight per dozen about, lbs.	33	38
Per dozen	$8 50	10.00

Per Dozen in a Case

SPOKE SHAVES.



KEEN KUTTER

Varnished Beechwood; Cutter Forged from Highest Grade Crucible Steel, Oil Tempered and Polished, Patent Thumb Screw Adjustment, Steel Face Plate Screwed to Bottom

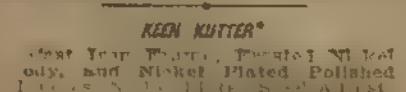
Per Dozen

No. KK90—STRAIGHT CUTTER; Width of Cutter 2 in., Length over all 9½ in.; Weight per dozen about 7 lbs. $13.00

One-half Dozen in a Cardboard Box.

KEEN KUTTER

Cast Iron Frame, Frosted Nickel only, and Nickel Plated Polished Handles; Nickel Plated Steel Adjusting Thumb Screw, Polished Face and Steel Cap, Cutters Forged from Highest Grade Crucible Steel, Oil Tempered and Polished.



Per Dozen

No. KK96—STRAIGHT AND CONCAVE; Width of Straight Cutter 2 in., Width of Concave Cutter 2⅛ in.; Length over all 12¼ in; Weight per dozen about 10½ lbs. $8.50

Per Dozen

No. KK92—STRAIGHT CUTTER; Width of Cutter 2 in., Length over all 9½ in.; Weight per dozen about 7½ lbs. $6.00

One-half Dozen in a Cardboard Box.

SPOKE SHAVES.

KEEN KUTTER

Cast Iron Frame; Frosted Nickel Body, and Nickel Plated Polished Handles; Nickel Plated Steel Adjusting Thumb Screw, Polished Face and Steel Cap, Cutters Forged from Highest Grade Crucible Steel, Oil Tempered and Polished.

Per Dozen

No. KK81—CONCAVE CUTTER; Width of Cutter 2 in.; Length over all 9½ in.; Weight per dozen about 7 lbs. $6.00

OAK LEAF

Japanned Cast Iron Frame and Handles, Polished Face; Steel Adjusting Screw and Polished Tool Steel Cutters.

Per Dozen

No. 20053—Adjustable Throat; Straight Cutter; Width 3⅛ in.; Japanned Cap; Length over all 10⅛ in.; Weight per doz. about 7⅛ lbs. $5.00

Per Dozen

No. 20051—Straight Cutter; Width 2⅜ in., Polished Cap; Length over all 10⅛ in.; Weight per dozen about 7⅛ lbs. $5.40

Per Dozen

No. 20055—Concave Cutter, Width of Cutter 2 in., Weight per dozen about 7⅛ lbs. $4.80

One-half Dozen in a Cardboard Box.

SPOKE SHAVES.

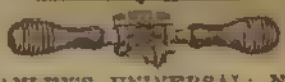
OAK LEAF

JAPANNED Cast Iron Frame, Handles and Caps; Straight and Concave, Tempered and Polished Tool Steel Cutters, Steel Adjusting Screws.

Per Dozen

No. 53—Straight and Concave Cutter, Width of Straight Cutter 1¾ in., Width of Concave Cutter 1⅝ in., Weight per dozen about 5 lbs. $5.10

One-half Dozen in a Cardboard Box.

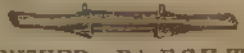


STANLEY'S UNIVERSAL, Nickel Plated Frame, Cast Iron, Japanned Body, Rosewood Grips, Nickel Plated Steel Adjusting Screws, Tempered Tool Steel Cutter, Two Detachable Bottoms, for use on Straight or Circular Surfaces; Adjustable Width Gauge, for use in Rabbeting; Both Handles Detachable, and either can be Screwed into Frame at Top, when used to work in Corners.

Per Dozen

No. 97—Width of Cutter 2 in., Weight per dozen about 5 lbs. $25.00

One-twelfth Dozen in a Cardboard Box.



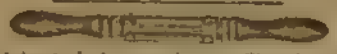
VARNISHED BEECHWOOD, Straight Face; Tempered and Polished Adjustable Tool Steel Cutter

Per Dozen

No. 20—Width of Cutter 2 in., Weight per dozen about 3 lbs $7.40

One-half Dozen in a Cardboard Box

SPOKE SHAVES.



Adapted to work on Circular or Straight Surfaces. Polished and Nickel Plated Cast Steel Body; Tempered and Polished Tool Steel Adjustable Cutter; Steel Adjusting Screw; Polished Rosewood Handle.

Per Dozen

No. 10—CIRCULAR, Width of Cutter 2⅛ in.; Length over all 10 in.. Weight per dozen about 6 lbs $17.50

STANLEY'S; Japanned Cast Iron Frame, Handles and Cap, Tempered and Polished Tool Steel, Adjustable Cutter, Steel Adjusting Screw.

Per Dozen

No. 53—Concave Cutter; Width of Cutter 2⅛ in. Length over all 9¾ in. Weight per dozen about 7½ lbs $4.80

One-half Dozen in a Cardboard Box.

JAPANNED Cast Iron Frame, Handles and Cap; Tempered and Polished Tool Steel, Adjustable Cutter, Steel Adjusting Screw

Per Dozen

No. 1—Straight Cutter; Width of Cutter 1¾ in.; Length over all 8¼ in.; Weight per dozen about 4 lbs $3.00

One Dozen in a Cardboard Box

BENCH PLANES.

KEEN KUTTER

SELECTED AND SEASONED BEECHWOOD, FINELY VARNISHED; Ebonized Hardwood Knobs; Double Cutters, Forged from Highest Grade Crucible Steel, Oil Tempered, Full Polished, Sharpened and Whetted on an Oil Stone by Hand READY FOR USE.

No. KS—SMOOTH; Length 8 in.; Size of Cutters, Assorted, 2, 2⅛ and 2¼ in.; Wgt. each about 2 lbs.....Each $1.50

No. KHS—HANDLED, SMOOTH; Length 9½ in.; Size of Cutters Assorted, 2 [illegible] and 2¼ in. [illegible] each about 2¾ lbs.....Each, $2.00

No. KJ [illegible] Length 15 in.; Size of [illegible] Assorted, 2⅛ and 2¼ in. Weight [illegible] 4 lbs [illegible] $1.70

No. KHJ [illegible] Length 15 in.; Size of Cutters [illegible] Weight [illegible] Each $2.00

No. KF [illegible] Length 20 in. [illegible] 1 2⅜ and 2½ [illegible] each about 6¼ lbs [illegible] ...Each, $2.50

No. KHF—FORE; RAZEE PATTERN, Length 20 in. Size of Cutters, Assorted, 2⅜ and 2½ in.; Wgt. each abt. 4¼ lbs...Each, $2.90

One in a Cardboard Box.

BENCH PLANES.

KEEN KUTTER

SELECTED AND SEASONED BEECHWOOD, FINELY VARNISHED, Ebonized Hardwood Knobs; Double Cutters, Forged from Highest Grade Crucible Steel, Oil Tempered, Full Polished, Sharpened and Whetted on an Oil Stone by Hand, READY FOR USE

JOINTER, Size of Cutters, Assorted, 2⅛ and 2⅜ in.

Each

No. KF26—LENGTH 26 IN.....$2.80

No. KF28—LENGTH 28 IN..... 3.20

No. KF30—LENGTH 30 IN..... 3.70

One in a Cardboard Box.

Weight Each about 7 lbs.

No. KHF26—JOINTER; RAZEE PATTERN Length 26 in.; Size of Cutters, Assorted, 2⅛ and 2⅜ in.; Wgt. each about 4¾ lbs Each, $3.30

One in a Cardboard Box.

We want to Handle Your MAIL ORDERS in Just the Way You Want Them Handled.

We Give you the Same Low Prices on MAIL ORDERS as made by Our Salesmen.

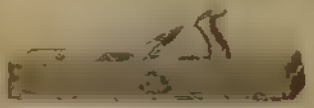
OAK LEAF

SELECTED AND SEASONED BEECHWOOD, PLAIN FINISH Polished Starts, Double Cutters, Forged from Special Crucible Steel, Oil Tempered Full Polished and Sharpened.

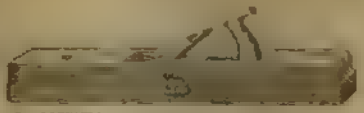
No. ES—SMOOTH. Length 8 in., Size of Cutters, Assorted, 2, 2⅛ and 2¼ in. Weight each about 1½ lbs.....Each $1.40

No. EHS—HANDLED, SMOOTH; Length 9½ in.; Size of Cutters, Assorted, 2, 2⅛ and 2¼ in. Wgt each about 2 lbs [illegible] $1.70

No. EJ [illegible] Length 15 in. Size of Cutters Assorted, 2⅛ and 2¼ in. Weight each about 4½ lbs .....Each, $1.60



No. EF—FORE; Length 20 in.; Size of Cutters, Assorted, 2⅜ and 2½ in.; Wgt. each abt. 6 lbs Each, $2.40



JOINTER of Cutters, Assorted, 2⅜ and 2⅝ in

Each

No. EF26—LENGTH 26 IN. $2.60

No. EF28—LENGTH 28 IN. 2.90

No. EF30—LENGTH 30 IN 3.30

Weight Each about 8 lbs

Wrapped in Heavy Paper; One in a Package

BENCH PLANES.

RAZEE OR RECESS HANDLE.

BEECHWOOD, PLAIN FINISH, Double Cutters, Forged from Tool Steel, Tempered and Polished.

Each

No. RJ—JACK, Length 16 in.; Size of Cutters, Assorted, 2¼ and [illegible] each about 4 [illegible] $1.70

Each

No. RF—FORE; Length 22 in. Size of Cutters, Assorted, 2⅜ and 2½ in.; Weight each about 5 lbs..$2.70

Packed Loose

SCIOTO.

BEECHWOOD, PLAIN FINISH; Cutters Forged from Tool Steel, Tempered and Polished.

No. SS—SMOOTH, SINGLE CUTTERS; Length 8 in.; Size of Cutters, Assorted, 2, 2⅛, 2¼ in.; Weight each about 2¼ lbs... $1.60

No. DS—SMOOTH, DOUBLE CUTTERS; Length 8 in.; Size of Cutters, Assorted, 2, 2⅛, 2¼ in. Weight each about 2½ lbs..... 1.80

No. SJ—JACK, SINGLE CUTTERS, Length 16 in.; Size of Cutters, Assorted, 2⅜ and 2¼ in.; Weight each about 4½ lbs... .Each, $1.20

No. DJ—JACK, DOUBLE CUTTERS; Length 16 in.; Size of Cutters, Assorted, 2¼ and 2⅜ in.; Wgt. each abt., 4¾ lbs..Each, 1.40

Each

No. SF—FORE, SINGLE CUTTERS Length 22 in.; Size of Cutters Assorted, 2⅜ and 2½ in.; Weight each about 6½ lbs.....$2.00

No. DF FORE, DOUBLE CUTTERS; Length 22 in., Size of Cutters, Assorted, 2⅜ and 2½ in. Weight each about 7 lbs.. 2.40

Each

No. J26—JOINTER, DOUBLE CUTTERS, LENGTH 26 IN.; Size of Cutters, Assorted, 2⅛ and 2⅜ in. $2.60

No. J28—JOINTER, DOUBLE CUTTERS, Length 28 in. Size of Cutters, Assorted, 2⅛ and 2⅜ in. 2.70

No. J30—JOINTER, DOUBLE CUTTERS, LENGTH 30 IN.; Size of Cutters, Assorted, 2⅛ and 2¼ in. 3.10

Weight Each about 9 lbs.

Packed Loose.

COPING SAWS.

BAY STATE.

Frame and Handle made of One Piece of Spring Steel, Nickel Plated; Ends Notched to hold Blade Faced Up or Down or to Either Side as Desired; Length of Handle 2¾ in.; Depth under Back 4 in., Length over all 9¾ in.

No. B100 C BAY STATE, FOR 6 IN. BLADES, Complete with 12 Blades; Weight per dozen about 5 lbs. ..... Per Dozen, $4.50

One-half Dozen in a Cardboard Box.

No. B100B—BAY STATE Extra Blades, 6 in.; Weight per gross about ... Per Gross, $1.70

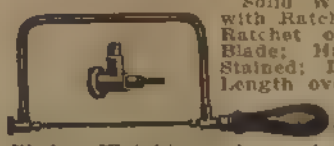
One dozen in each package

JONES

Nickel Plated Steel Frame, Polished Hardwood Handle 3½ in. Long. Blades may be faced in any desired direction without removing from the work. Length over all 12 in., Depth under Back 4 in.; Tubular Frame, with Cord running through connecting both ends of Blade, making same Adjustable by simply turning the Handle.

No. 12—JONES, CABLE. With Six 6 in. Steel Blades; Weight per dozen about 7 lbs. ..... Per Dozen $22.00

STANDARD RATCHET.



Solid Wire Frame, Nickel Plated, with Ratchet Nut at Outer End and Ratchet on Handle, for Adjusting Blade; Hardwood Handle, Yellow Stained; Length of Handle 4 in.; Length over all 12 in.

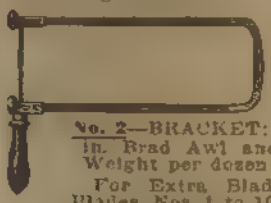
Per Dozen

No. 300—For 6 in. Blades; Complete with 6 Steel Blades; Weight per dozen about 6 lbs. $11.70

One-sixth Dozen in a Cardboard Box.

SCROLL SAWS.

Nickel Plated Spring Steel Frame, Thumb Screws for Fastening Blades.



Depth of Frame 11½ in.; Polished Rosewood Handle 4 in. Long; Three Printed Sheets of Full Size Designs or Patterns, also Tracing Paper, included with each Saw.

Per Dozen

No. 2—BRACKET; NOT ADJUSTABLE; With 3½ in. Brad Awl and 12 Steel Blades, 5 in. Long; Weight per dozen about 12 lbs. $23.00

For Extra Blades, see Griffin's Bracket Saw Blades Nos. 1 to 10.

One-twelfth Dozen in a Cardboard Box.

Will accommodate Blades from 4 to 7½ in. Long; Polished Cocobolo Handle 4 in. Long; Knurled Face Lock Nut; Depth under Back 2¼ in., Length over all, when fully extended, 12½ in.

Per Dozen

No. J—JEWELERS' ADJUSTABLE; WITHOUT BLADES; Weight per dozen about 5 lbs. $17.00

One-quarter Dozen in a Cardboard Box.

Per Gross

No. JB—Extra Blades for No. J. Jewelers' Saws; Tempered Spring Steel, Blued Finish, 4½ in. Long; Weight per gross about 3 oz. $2.00

One-twelfth Gross in a Package.

Painted; Cast Iron Frame, Balance and Drive Wheels; Plain Finish Hardwood Table and Saw Arms, Steel Arbors and Bearings; 1 in. Leather Belt

Height over all 44 in.; Length of Table 34 in.; Width 20 in.; Swing around Table, under Arm, 24 in., Treadle Board, Length 34 in.; Diameter of Balance Wheel 9 in.; Arms, Length 31 in.; Complete with Twelve 7-in. Tempered and Polished Steel Blades; Assorted Widths as follows: 4 each ⅛, 9/16, ⅛ in.; Plain Finish Hardwood Treadle Board.

Each

‡ No. 65—BARNES' TREADLE (Factory No. 71); Weight each about 95 lbs. $15.00 $22.80

One in a Wood Case

SCROLL SAWS.

Japanned, Heavy Braced Cast Iron Frame, Driving Wheel and Treadle; Round Leather Belt; Cast Adjustable Bed Plate or Rest, 7½ in. Diameter, with Saw Guide, Hardwood Rocking Arms, 20½ in. Long, taking 5 in. Blades with Wing Screws and Eccentric Lever for Tightening Blades; Automatic Saw-Dust Blower on Upper Arm. Complete with One Dozen 5 in. Blades, 4½ in. Wrench, Belt Couplings, and Set of Full Size Designs.

For Extra Blades, See Griffin's Bracket Saw Blades, Nos. 1 to 10

Height over all 39 in., Measurements at Base, 26 in. Long, 15 in. Wide; Driving Wheel 12 in. Diameter; With Two Grooves to give a Change of Speed; Steel Shaft with Emery Wheel ⅞ in. Flat Face, 4 in. Diameter; Wing Screw to hold Drill Points; Two Speed Cone Pulleys 3 in. Diameter; Swing of Lathe 6 in.; Bed 24 in. Long; Distance between Centers 14 in.; One Double Adjustable Tool Rest, 11½ in. Long; And One Single Tool Rest, 4 in. Long; Tail Stock has Screw Feed Center, and can be secured at any point by Clamp; Head Stock has one Spur and One Screw Center

One Drill Point, Each, 1/16, 5/64, 3/32, ⅛, 5/32 and 3/16 in.; One Turning Gouge, each ⅛, ¼ and ½ in.; One Screw Driver, 5 in. Long, included with each Machine.

Each

No. C/1—COMPANION With Lathe Attachment; Angular Frame; Weight each about 76 lbs. $18.00

One in a Wood Box.

Height over all 37 in.; Measurement at Base 23 in. Long, 16 in. Wide; Driving Wheel 12 in. Diameter; Steel Shaft with Balance Wheel 5½ in. Diameter; Belt Wheel 12 in. Diameter, and Wing Screw to Hold Drill Points; One Drill Point, Each 3/16, ⅛ and 1/16 in. included with Each Saw

Each

No. 1 ROGERS'; Weight each about 43 lbs. $6.50

One in a Wood Box.

No. 51

Painted; Cast Iron Frame, Balance, and Drive Wheels; Plain Finish Hardwood Table and Saw Arms; Steel Arbors and Bearings; 1 in. Leather Belt

Height over all 46 in.; Length of Table 34 in.; Width 20 in.; Swing Around Table, under Arm, 24 in.; Diameter of Balance Wheel 9 in.; Diameter of Drive Wheel 21 in.; Saw Arms 31 in. Long; Cranks 6 in. Long; Seat 13 in. Wide. Boring Attachment Belt ⅛ in. Round Leather; Boring Attachment can be used with Bits any size from ⅛ to ¼ in.; Complete with Twelve 7-in. Tempered and Polished Steel Blades Assorted Widths as follows: 4 each ⅛, 3/16 and ¼ in. Painted Cast Iron Seat Cranks, Pedals and Boring Attachment Arm

Each

‡ No. 51—BARNES VELOCIPEDE (Factory No. 71); With Boring Attachment; Weight each about 130 lbs. $20.00 $22.00

‡ No. 53—BARNES' VELOCIPEDE (Factory No. 71); Without Boring Attachment; Weight each about 130 lbs. $18.00 28.80

One in a Case.

SCROLL SAW BLADES.

For Barnes' Scroll Saws and Barnes' Combined Machines; Tempered and Polished Spring Steel.

BARNES

			Per Dozen	
No. ⅛ B—	⅛	in. Wide; 7 in. Long	$0.65	$1.00
No. [illegible] B	[illegible]	[illegible]	.65	1.00
No. ¼ B—	¼	in. Wide; 7 in. Long	.65	1.00

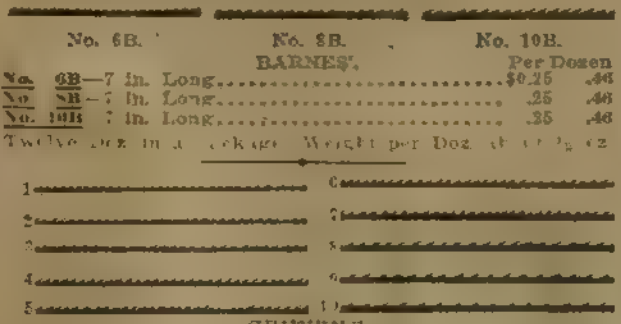
One Dozen in a Package. Weight per Dozen about 2 oz.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BRACKET SAW BLADES.

Cuts Actual Size.

For Barnes' Scroll Saws and Barnes' Combined Machines; Tempered and Polished Spring Steel.



BARNES'.

		Per Dozen
No. 6B	—7 in. Long	$0.25 .46
No. 8B	—7 in. Long	.25 .46
No. 10B	7 in. Long	.35 .46

Twelve pcs. in a package. Weight per Doz. about ½ oz.

GRIFFIN'S.

Tempered Spring Steel, Natural Finish; 5 in. Long.

Nos.	1	2	3	4	5
Per gross	$1.40	1.40	1.40	1.40	1.40
Nos.	6	7	8	9	10
Per gross	$1.40	1.50	1.70	1.90	2.20

One-twelfth Gro. in a Package; Wgt. per Gro. abt. ½ lb.

‡WOOD SAWING MACHINES.

WITHOUT CIRCULAR SAW

Extra Heavy Hardwood Frame and Table, Painted Red, Striped Green and White, Bolted and Braced; Steel Shaft 4 ft. 6 in. long, with 1¾ in. Arbor and 5 in. Arbor Flanges; Cast Iron Japanned Driving Pulley, Diameter 5 in., Face 6 in.; Cast Iron Balance Wheel, weight 100 lbs. Adapted for Sawing Regular 4 ft. Cord Wood.

‡DIAMOND TILTING TABLE SAW FRAME
Without Saw.

Cast Iron Saw Guard adjustable for Circular Saws 20 to 30 in. in Diameter; Shaft Boxes are grooved to prevent end play and are connected by an Iron Frame, thus keeping them in perfect alignment. Length over all 56½ in.; Width over all 54¾ in.; Height over all 47¾ in.

Each

No. DT—Weight each about 330 lbs. $26.00

‡DIAMOND SLIDING TABLE SAW FRAME.

Without Saw.

Hardwood Saw Rest, securely braced to Table, will accommodate Circular Saws from 20 to 30 in. in Diameter. Shaft Boxes are grooved to prevent end play. Table slides on Rollers on two Iron Guides which form part of the Table. Floor Space required 6 ft.; Width over all 5 ft.; Height over all 47½ in.

No. DS—Weight each about 315 lbs. .....

‡DIAMOND TILTING TABLE POLE SAW.

Without Saw.

Extra Heavy Hardwood Frame and Table, Painted Red, Striped Green and White, Bolted and Braced; Steel Mandrel Shaft 4 ft. 7 in. long, with 1¾ in. Arbor, and 5 in. Arbor Flanges; Cast Iron Driving Pulley, Diameter 5 in. Face 6 in. Cast Iron Center or Belt Tightening Pulley, Diameter 5 in., Face 6 in., on Heavy Cast Iron Bracket Bolted to Frame. Cast Iron Balance Wheel, weight 100 lbs., fastened to 1½ in. Steel Shaft with Cast Iron Driving Wheel, Diameter 5 in., Face 6 in. All Shaft Boxes Bolted to Frame and are grooved to prevent end play. Cast Iron Saw Guard, adjustable for Circular Saws 20 to 30 in. in Diameter. Mandrel Shaft Boxes are connected by an Iron Frame thus keeping them in perfect alignment. Adapted for Sawing Regular 4 ft. Cord Wood and Long Poles. Length over all 66½ in.; Width over all 61 in.; Height over all 47¾ in.

Each

No. DTP—Weight each about 415 lbs. $33.00

KNOCKED DOWN AND CRATED

WHEN ORDERING ALWAYS STATE WHETHER RIGHT OR LEFT HAND SAW IS WANTED

Standing in front of a Circular Saw with the Saw revolving toward you, if the table upon which the wood rests passes to the right of the Saw, it is a Right Hand Saw; if to the left, it is a Left Hand Saw.

WOOD SAWS.

Extra Select Heavy Maple Frame, Double Riveted Brace, with 26 in. Long Arm; 22 in. Giant Pattern; Steel Stretcher Rod with Heavy Japanned Buckle; Highest Grade Crucible Steel 30 in. Blued Blade.

KEEN KUTTER*

Per Dozen

No. KC—KEEN KUTTER* EXPERT; Curved Walnut Stained and Varnished Frame with No. K95 KEEN KUTTER Expert Peg Tooth Blade; Weight per dozen about 55 lbs. $16.00

No. K9—KEEN KUTTER* Plain, Blue Painted and Varnished Frame, with No. K94 KEEN KUTTER Expert Champion Tooth Blade; Weight per dozen about 55 lbs. $16.00

No. 45—DISSTON'S; Plain, Walnut Stained and Varnished Frame, with No. 45 Disston Common Tooth Blade; 22 in. Duplex Tinned Stretcher Rod; Weight per dozen about 55 lbs. 16.00

No. KB.

No. KBJW

KEEN KUTTER*

Heavy Maple Frame, Double Riveted Brace, with 26 in. Long Arm; 22 in. Giant Tinned Steel Stretcher Rod; Complete with 30 in. Blade as described.

Per Dozen

No. KBJW—KEEN KUTTER BLACK JACK*; Extra Select; Natural Smooth Belted Finish, not Painted. With No. K97 KEEN KUTTER Black Jack Peg Tooth Blade; Weight per dozen about 55 lbs. .. $14.00

No. KBJR—KEEN KUTTER BLACK JACK*; Select Vermillion Painted and Varnished Finish; With No. K97 KEEN KUTTER Black Jack Peg Tooth Blade, Weight per dozen about 55 lbs. 11.00

No. KJ39—KEEN KUTTER BLACK JACK*; Select Vermillion Painted and Varnished Finish; With No. K39 KEEN KUTTER Common Tooth Blade; Weight per dozen about 55 lbs. 14.00

No. KJ90—KEEN KUTTER BLACK JACK*; Select; Vermillion Painted and Varnished Finish; With No. K90 KEEN KUTTER Lightning Tooth Blade; Weight per dozen about 55 lbs. 14.00

No. KJ84—KEEN KUTTER BLACK JACK*; Select; Vermillion Painted and Varnished Finish; With No. K84 KEEN KUTTER Champion Tooth Blade; Weight per dozen about 55 lbs. 14.00

No. KBB—KEEN KUTTER*; Select; Blue Painted and Varnished Finish; With No. K9x KEEN KUTTER Pattern; Weight per dozen about 55 lbs. 14.00

OAK LEAF*

Select Hardwood Frame, Painted Red and Varnished, Double Riveted Brace, with 28½ in. Long Arm; 22 in. Duplex Polished Steel Stretcher Rod; Complete with 30 in. Blade as described.

Per Dozen

No. E9130—With No. E910 OAK LEAF Common Tooth Blade $11.00

No. E9230—With No. E920 OAK LEAF Lightning Tooth Blade 12.00

No. E9330—With No. E930 OAK LEAF Champion Tooth Blade .....

No. E9630—With No. BS BAY STATE* Common Tooth Blade .....

No. E9830—With No. B BAY STATE* Common Tooth Blade .....

No. E8530—With No. 8 SAMSON Common Tooth Blade 11.00

No. E8430—With No. 8C SAMSON Champion Tooth Blade .....

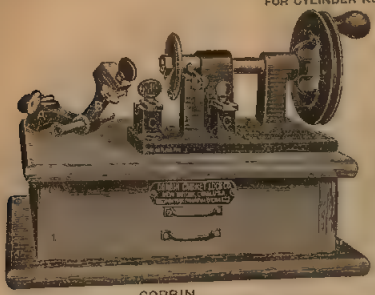
No. E630—With No. 6 DISSTON Common Tooth Blade 16.00

One-half Dozen in a Box. Weight per Dozen about 55 lbs.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

KEY CUTTING MACHINES

FOR CYLINDER KEYS ONLY



CORBIN

Handsomely Finished Hardwood Cabinet, 13¾ inches Long; 12½ inches Wide and 41 inches High, with Two Drawers Partioned off to Keep Keys Separated. Can be Operated by Hand or by Belt. Will Accurately Cut Keys for all Pin Tumbler Locks.

	Each
✣No. 8101—Complete Cabinet, Machine and Twelve Dozen Assorted Cylinder Key Blanks. One in a Case. Weight 85 lbs.	$68.00
✣No. 8101½—Machine Only, Without Cabinet or Keys. One in a Case. Weight Each 15 lbs.	35 20
✣No. EC8101—Extra Cutting Wheels for above Machine. One in a Box. Weight, Each 1 lb.	2 75

This Machine can be Clamped in Any Vise.

Made of Steel Milled to its Shape Making its Accuracy Positive

An Accurate Key Cutting Machine at a reasonable Price. The Gauge Pins are Tempered so hard that they Cannot be Filed; Making it Impossible to Wear Them Out.

Cut Shows Gauge Pins Furnished with Each Machine One for V Groove and One for Round Groove

HARRISON

	Each
No. MIP—1½x2¾ inches Polished Steel. Brass Thumb Nuts for Holding Keys. Bow Clamp is made of Iron Japanned, with Japanned Thumb Screws	$8 00

FILES

No. IIF—Special Diamond Files for Use with MIP Machine. One in a Box. Weight, Each 1 lb.	00

WE SPECIALIZE BUILDERS' HARDWARE.

Go through this catalog—make a mental note of the class, character and variety of Builders' Hardware shown—and you will be compelled to consider us Builders' Hardware Specialists in the broadest sense.

We learned some years ago that the concern who handle new designs—who would keep the prices down and the quality up, and who would have the stock ready for immediate shipment—would take the lead as distributors of Builders' Hardware. We have been adjusting our business to this policy ever since.

We now offer you the merchandise listed here absolutely confident that it will completely satisfy your every demand, from quality standpoint as well as a price standpoint.

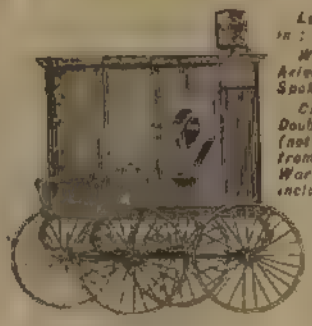
Supplying many thousand dealers throughout the United States, we are justified in carrying this large open stock, and the very knowledge that we do carry such an immense stock brings us new business from every part of the country every day.

This new business comes because the dealer has learned that we actually carry the stock and ship at once.

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Britain, Conn., or Chicago, Ill.

‡CORN POPPERS.

HAND POWER



Length over all 62 in.; Width 34 1/2 in.; Height 61 1/2 in. to Top of Case.

WAGON—Steel Springs, Wheels and Axles. 36 in. Wheels, with 24 Steel Spokes and Steel Tires.

CASE—Durable Oak Case with Double Strength Glass; Case has Shelf (not shown in cut) for display; Heat from Popper Keeps Contents of Case Warm; A Torch also (not shown in cut) included.

MACHINE—Capacity 4 Bushels of Popped Corn per Hour; Can furnish with Peanut Cylinder which Roasts a Half Bushel; Popper Cylinder can be removed and Roasting Cylinder placed in a few seconds.

	Each
‡No. 62—For Gasoline	$130.00
‡No 61—For Gas	130.00
‡No. 6[illegible]—For Gasoline, with Peanut Cylinder	190.00
‡No. 6[illegible]—For Gas, with Peanut Cylinder	190.00

Cart, Wrapped, Knocked Down; Weight each about 22 lbs.; Case, Crated, Set up; Weight each about 243 lbs.

NICKEL PLATED AND POLISHED COPPER

Body Planished Iron; Inside Cylinder Revolves, and Popped Corn is Ejected Automatically; Unpopped Corn remains until Popped; on account of Cylinder Revolving, Corn is Not Broken while being Ejected.

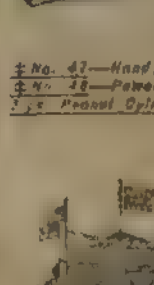
FOR HAND OR STEAM POWER; If Steam Power is used, Cast Iron Pulley Attached, Diameter 24 in., 3 in. Face.

37 in. High, 28 in. Wide 18 in. Deep. Capacity 12 Bushels per Hour.

‡No 51—Power, For Gas. Weight each about 240 lbs.	$150.00
‡No. 52—Hand; For Gas; Weight each about 155 lbs.	142.00
‡No 54—Power; For Gasoline. Weight each about 240 lbs.	150.00
‡No 55—Hand; For Gasoline; Weight each about 165 lbs.	142.00

36 in. High, 26 in. Wide, 18 in. Deep, Capacity 6 Bushels per Hour.

	Each
‡No. 35—Hand; For Gasoline; Weight each about 122 lbs.	$ 88.00
‡No. 36—Power; For Gasoline; Weight each about 135 lbs.	102.00
‡No 37—Hand; For Gas; Weight each about 120 lbs.	88.00
‡No. 38—Power, For Gas. Weight each about 135 lbs.	102.00
‡No. 1/4 Peanut Cylinder to Fit Nos. 35-36-37-38, Extra	12.50



28 in. High, 19 in. Wide, 12 in. Deep; Capacity 4 Bushels per Hour.

	Each
‡No 45—Hand; For Gasoline; Weight each about 84 lbs.	$51.00
‡No 46—Power. For Gasoline Weight each about 70 lbs.	58.00
‡No. 47—Hand; For Gas; Weight each about 80 lbs.	51.00
‡No. 48—Power; For Gas; Weight each about 95 lbs.	58.00
‡No. 1/4 Peanut Cylinder to Fit Nos. 45-46-47-48, Extra	8.00

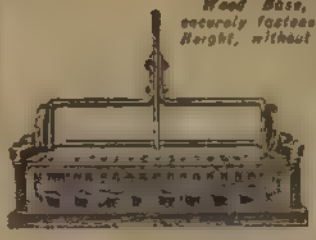
The Body Construction of this Machine is the same as those described above. The Front, Sides and Top are covered with Nickeled Copper, and the Front of the Cylinder Panneled in Polished Copper, Brass and Silver. This Machine is Especially Suitable for Fancy Stands at Parks and other Public Places.

42 in. High, 28 in. Wide, 18 in. Deep; Capacity 12 Bushels per Hour.

	Each
‡No. 251—Attachment for Power; For Gas; Weight each about 340 lbs.	$240.00
‡No 252—Hand Power; For Gas; Weight each about 255 lbs.	230.00
‡No 254—Attachment for Power; For Gasoline Weight each about 340 lbs.	240.00
‡No 255—Hand Power; For Gasoline; Weight each about 256 lbs.	230.00

One in a Crate.

‡FRITTER MOLDS.



Wood Base, with Heavy Iron Working Parts securely fastened; Base 32 in. Long, 18 in. Wide, Height, without Lever, 15 in.; Lever 8 in. Long, 1 1/2 in. Wide, 3/4 in. Thick, Diameter of Cakes 2 1/2 in., and any Thickness up to 1 1/4 in., regulated at will; Capacity 25 Fritters per Pressing; Two Sets of Molds included with each Machine.

	Each
‡No FF—Weight each about 220 lbs.	$100.00

One in a Crate.

Hardwood; Two Molds Complete constitute a Set; One Man and a Helper can produce 600 to 800 Fritters an Hour.

Instructions for making Popcorn Delicacies included with each Mold.

	Set
‡No M3—Inside Diameter 3 in.	$4.50
‡No M3 1/2—Inside Diameter 3 1/2 in.	4.50
‡No M3 1/2—Inside Diameter 3 1/2 in.	4.50
‡No M3 3/4—Inside Diameter 3 3/4 in.	4.50

Wrapped in Corrugated Paper; Weight per Set about 5 lbs.

‡ICE CREAM CONE OVENS.

PARISIAN

Showing Three Twin Outfits on a Three-Burner Stove.

No rolling of Cones. No Measuring of Batter; No Provoking Delay, waiting for Cones to Crystallize so you can lay them down. No more trouble from Cones being different in size and thickness; No more yellow hands and burnt fingers shaping Hot Cones. No dripping of soft cream. No Opening up or Flattening Out; One Cone in Batter, insert in Oven and out comes a True Cone Ready for Use.

For ahead of the Old Style Flat Ones; Cooks a Beautiful Crisp Brown, Brittle Cone; Saves Time, Labor, Money, Worry and Work.

Frames and Ovens Cast Iron; Ovens Reroive; Frame of suitable size to fit over One Hole of a Gas or Gasoline Stove.

Cabinet Frame Gas or Gasoline Stove furnished in One, Two or Three Burner, as described below.

FRAMES AND OVENS ONLY.

	Each
‡No 28—One Single Outfit, containing One Frame and Gas Oven	$17.10
‡No. 27—Two Single Outfits, containing Two Frames and Two Ovens	29.70
‡No 26—Three Single Outfits, containing Three Frames and Three Ovens	41.00
‡No. 17—One Twin Outfit, containing One Frame and One Gas Oven	28.80
‡No. 16—Two Twin Outfits, containing Two Frames and Two Ovens	50.40
‡No. 15—Three Twin Outfits, containing Three Frames and Three Ovens	83.90

Weight Each about, Single Outfit, 26 lbs.; Twin Outfit, 68 lbs.

STOVES, FRAMES AND OVENS COMPLETE FOR GASOLINE

	Each
‡No. 25—Containing One One-Burner Stove, One Single Frame and One Oven	$24.90
‡No. 24—Containing One Two-Burner Stove, Two Single Frames and Two Ovens	38.00
‡No. 23—Containing One Three-Burner Stove, Three Single Frames and Three Ovens	52.20
‡No. 18—Containing One One-Burner Stove, One Twin Frame and One Oven	36.00
‡No. [illegible]—Containing One Two-Burner Stove, Two Twin Frames and Two Ovens	61.20
‡No. 13—Containing One Three-Burner Stove, Three Twin Frames and Three Ovens	76.50

Weight Each, Complete, about, Nos. 25, 24 or 23, 50 lbs.; Nos. 26, 27 or 28, 66 lbs.

STOVES, FRAMES AND OVENS COMPLETE FOR GAS

	Each
‡No. 25C—Containing One One Burner Stove, One Single Frame and One Oven	$24.90
‡No. 24C—Containing One Two Burner Stove, Two Single Frames and Two Ovens.	38.00
‡No. 23C—Containing One Three Burner Stove, Three Single Frames and Three Ovens	52.20
‡No. 18C—Containing One One Burner Stove One Twin Frame and One Oven	36.00
‡No. 13C—Containing One Two-Burner Stove, Two Twin Frames and Two Ovens	61.20
‡No. 12C—Containing One Three-Burner Stove, Three Twin Frames and Three Ovens	76.50

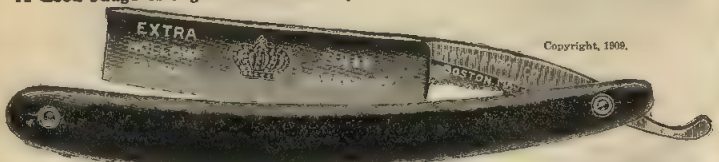
Weight Each, Complete, about Nos. 25C, 13C and 12C, 50 lbs.

Packed, Cases, in Boxes; Stoves, One in a Crate.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

Special "Crown Razor"

A Good Judge of a good razor will buy the "Crown". Each Razor Guaranteed



Copyright, 1909.

The Crown Razor is a very special product in the razor line. Manufactured by the Crown Razor Co., of Boston, Mass. It is strictly high grade, made of best decarbonized American steel, by skilled mechanics. It has the finish and appearance as well as cutting quality of a razor that would sell many times the price quoted on this. Each razor is fully guaranteed, and if found defective, will be replaced with new goods.

These razors are made under our special order with greatest care, and therefore we are safe to say that no razor at a similar price in the market is as good. For mail-order men, street men, razor agents, canvassers, premium men and dealers, this particular brand of razors has no equal.

The handler or dealer may ask most any price he desires for the goods, because the quality, appearance and finish justifies it. The evenness of the temper and the cutting quality is seldomly obtained in other makes. We are sure that a trial order will result in many repeaters. It is positively one of the best razors for mail order exploitation.

No. N5585. Crown Razor, square point, extra hollow ground, ⅝-in. blade, highly polished black rubber handle.
Dozen 3.50

No. N5586. Crown Razor, round point, ⅝-in. blade, extra hollow ground finish, polished black rubber handle.
Dozen 3.50

N. B.:—Each razor in case stamped $3.00 in gilt letters.

EMBLEM RAZORS

The Razors that will shave better and with more comfort than any in the market.

Each one guaranteed by us, any razor not satisfactory will be exchanged for new one.

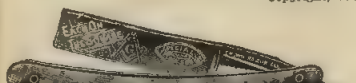
These razors while quoted at uncommonly low prices are strictly high-grade stock, better than most sold for double or triple the price we ask.

No razors in the market carry a stronger guarantee than these, no matter what price you pay for them.

Mottled Celluloid handles, assorted blue amber and green colors.

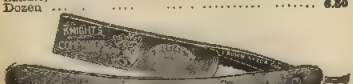
BLADES CROCUS POLISHED—ALL ETCHINGS IN GOLD.

Copyright, 1910

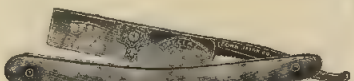


No. N5587. Masonic Emblem Razor, ⅝-in. square point, extra hollow ground polished blade etched Masonic emblem, file tang, the celebrated Crown Razor Co.'s goods, square shape mottled celluloid handle.
Dozen 6.50

No. N5588. Oddfellow Emblem Razor, ⅝-in. square point, extra hollow ground polished blade, etched with the emblem, file tang, square design, mottled celluloid handle, each in lettered case.
Dozen 6.50

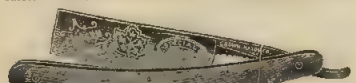


No. N5589. Knights of Pythias Emblem Razor, ⅝-in. square point, extra hollow ground polished blade, file tang, with emblem etched, celebrated Crown Razor Co.'s goods, square design mottled celluloid handle, each in lettered case. Dozen 6.50



No. N5591. Elk Emblem Razor, ⅝-in. square point, extra hollow ground blade, file tang, celebrated Crown Razor Co.'s goods, each in lettered case, mottled celluloid handle.
Dozen 6.50

No. N5592. Eagle Emblem Razor, square point, ⅝-in. extra hollow ground blade, file tang, celebrated Crown Razor Co.'s goods, square design, mottled celluloid handle, each in lettered case. Dozen..... 6.50



No. N5593. Modern Woodmen of America Emblem Razor, ⅝-in square point, extra hollow ground, file tang, celebrated Crown Razor Co.'s make, square design mottled celluloid handle, each in lettered case.
Dozen 6.50

CHURNS.

THE DAZEY.

The DAZEY Churn will Positively Produce the Finest Granular Butter that can be made (if the instructions are properly followed), for the following reasons:

Owing to the shape of the Tank and the Paddles on the Dasher, the cream is thrown upward into each square corner of the Tank, and as it strikes these corners it is thrown back into [illegible] making it a double acting agitator, and owing to the rapid revolution of the Dasher, caused by the high gear of the Machine, it produces a more rapid agitation and thus makes butter quicker than can be done in other churns.

This rapid agitation immediately causes the Butter to form into small grains or granular form (about the size of a wheat kernel) instead of the salvy form as in other Churns. This granular form of the Butter makes it far more washable than the salvy form, thus freeing it from all buttermilk, so that after the Butter has been churned and the remaining milk drawn off from the bottom it can then be washed by the same movement of the Dasher, by pouring water into the top of the tank, and after churning the Butter through the water about one minute each grain will have received a thorough washing.

Each Churn furnished with a Perforated Tin Strainer, to be used in catching any grains of Butter which may flow out in draining the Tank.

The DAZEY Churn is a Light Running Machine, and Easy to Clean, thus making it Sanitary.

No. 1DZ with 13 in. Fly Wheel and Two ¼ in. Solid Steel Stay Rods.

No. 2DZ with Removable Sliding Gear.

Solid Cast Iron Base; Reinforced Cast Iron Gearings, Solid Cast Steel Center Rods ⅜ in. Diameter; Japanned, Squarely Boxed; Tank made of Best Quality IX Charcoal Tin, Heavily Soldered, Painted with Blue Enamel Paint and Fancy Aluminum Stenciling; Screw Cap Drain near Bottom; Two-piece Ash Wood Cover, Natural Finish and Varnished, with Japanned Wood Knobs; All Iron Parts Aluminum Finish.

Removable Dasher, with 4 Paddles, made of Selected Wood, Smoothly Grooved and Nailed, Fitted with Polished Steel Dasher Rod.

Nos.	1DZ 6	2DZ 7
Capacity, gallons	9	12
Size of Tank, inches	9½x9½x15⅛	7⅛x7⅛x12⅝
Spread of Base, inches	11¾	8¾
Height over all, inches	32	24⅝
Butter Churning Capacity	1 to 4 Gal.	1 Qt. to 2 Gal.
Each	$8.00	4.80

DIRECTIONS FOR OPERATING SENT WITH EACH CHURN.

One in a Crate; Weight per Crate, No. 1DZ, 32 lbs.; No. 2DZ, 16 lbs.

DASH CHURNS.

MOONSTONE.

Heavy Sheet Steel Tank, with Three Coats of Enamel, Dark Blue Color, with Pale Blue Blended Center, White Inside; Black Enameled Steel Carrying Handles, Electrically Welded to Tank, Hardwood Cover, Natural Finish, Varnished on Top; 8x8 in. Hardwood Dasher with 39 in. Hardwood Handle, Natural Finish.

Per Dozen

No. 2MD—MOONSTONE: Capacity 7 Gallons; Diameter 10 in.; Height 17 in.; Weight per dozen about 160 lbs. $34.00

One-half Dozen in a Crate.

DASH CHURNS.

Selected Ash, Natural Finish, Varnished; Staves Tongued and Grooved, Perfectly Smooth Inside; Bottom made of One Piece, Set well in the Body, Sunken Lid; Plain Wood Dasher; Four Steel Hoops, ⅝ in. Wide, on all Churns except No. 3D, which has 3 Hoops; Wood Handle, 40 in. Long, Natural Finish.

Nos.	0-8D	1-8D	2-8D	3-8D
Capacity, gallons	3	5	7	10
Churns, gal. cream	2	3½	5	7
Height, inches	17	21½	24½	27
Diameter Top, inches	10	12	13½	15½
Wgt. doz. abt. lbs.	90	110	125	144
Per dozen	$16.00	18.00	19.50	21.00

One-half Dozen in a Crate.
Handles Wrapped in Burlap.

Lids for Dash Churns.

Nos.	0-8D	1-8D	2-8D	3-8D
Per dozen	$1.80	1.80	1.80	1.80

Dashers, with Handles, for Dash Churns.

Nos.	0-8D	1-8D	2-8D	3-8D
Per dozen	$1.70	1.70	1.70	1.70

Weight per Dozen: Lids, about 13 lbs.; Dashers, about 24 lbs.; Handles, about 13 lbs.

Packed Loose.

TIN.

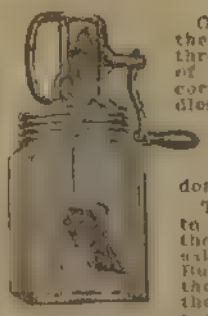
Plain IX Tin, Seamed and Soldered; with Soldered Tin Bottom Rim, Soldered Tin Carrying Handles, Deep Rimmed Stamped Tin Cover; Complete with 5x6 in. Plain Hardwood Dasher; 39 in. Plain Hardwood Dasher Handle, Natural Finish.

Nos.	30 3½	40 4	50 5
Capacity, gallons	8½x13¾	8½x15¾	8½x19⅝
Size, inches	28	31	37
Wgt. doz. abt. lbs.	$11.50	13.00	14.00
Per dozen			

Packed Loose.

FAMILY CHURNS.

DAZEY, GLASS, FAMILY.



Heavy Clear Glass Jar.

Owing to the shape of the Tank and the Paddles on the Dasher, the Cream is thrown upward into each square corner of the Tank, and as it strikes these corners it is thrown back into the Paddles, thus making it a double acting agitator, and owing to the rapid revolution of the Dasher, it produces a more rapid agitation and makes butter quicker than can be done in other churns.

This rapid agitation causes the Butter to form into small granular form (about the size of a wheat kernel) instead of a salvy form. This granular form of the Butter makes it far more washable than the salvy form. It can be washed by the same movement of the Dasher by pouring water into the top of the Tank, and after churning the Butter through the water about one minute each grain will have received a thorough washing.

Heavy Clear Glass Jar, Beveled Corners; Nickel Plated Stamped Steel Threaded Screw Cap Top, Cast Iron Gear Frame with Hand Grip, Aluminum Finish, Riveted to Top Cap; Machine Cut Gearing Accurately Fitted; Cast Iron Crank with Natural Finish Hardwood Handle; Hardwood Turbine Dasher with Four Paddles, Smoothly Grooved and Nailed; Polished Steel Dasher Rod.

Nos.	10G 3	20G 5	30G 7½	40G 8
Capacity, pints	3⅝x7	4⅝x8	5⅝x8½	6x9
Size of Jar, inches	11	12⅝	13¼	14⅝
Height over all, inches	50	80	120	140
Butter Churning Capacity	1½ Pts.	3½ Pts.	3¾ Pts.	4½ Pts.
Wgt. per doz. about, lbs.	$19.00	27.50	33.00	15.00
Per dozen				

Nos. 10G and 20G, One Dozen; Nos. 30G and 40G, One-half Dozen in a Case.

DIRECTIONS FOR OPERATING SENT WITH EACH CHURN.

EXTRA GLASS JARS FOR DAZEY CHURNS.

Nos.	10GJ	20GJ	30GJ	40GJ
Weight per dozen about, lbs.	18	24	35	47
Per dozen	$3.70	4.50	9.50	12.50

Packed Loose.

WATER KEGS.

LIQUOR OR WATER KEGS.

Oak, Varnished, 6 Iron Hoops 1 in. Riveted, with Bung Hole 1¼ in.

Nos.	05	010
Capacity, gallons	5	10
Diameter, inches	10½	12½
Height, inches	16½	21
Weight per doz. about, lbs.	165	240
Per dozen	$16.00	21.00

RAILROAD WATER KEGS

Oak, Varnished; Hinged Cover; 6 Steel Hoops ⅝ in. Wide, Stamped Steel Side Handles, Screwed on

Nos.	5GRR	10GRR
Capacity, gallons	5	10
Diameter, inches	10½	12¾
Height, inches	17	21
Weight per doz. about, lbs.	144	192
Per dozen	$20.00	24.00

Packed Loose

HARVEST KEGS.

HARVEST KEGS

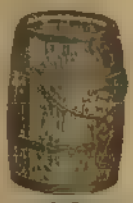
Oak, Varnished, 4 Steel Hoops, [illegible] 3 Gauge Copper Wire Bail, with [illegible]n Wood Handle, ⅜ in. Metal Mouth Piece.

No.	1	2	3
Capacity, gallons	½	¾	1
Diameter, inches	6¼	7¾	9½
Height, inches	10	11½	13½
Weight per dozen about, lbs.	42	66	84
Per dozen	$8.50	9.00	10.00

Nos. 1 and 2 Half Dozen. No. 3 One-third Dozen in a Bundle

WOOD WELL BUCKETS.

EUREKA.



Oak, Varnished; 4 Black Steel Hoops ⅝ in., Riveted; Full Strap Ears ⅝x11 in., Wrought Iron, Clinching on Sides and Bottom Hoop; ⅝ in. Iron Bail, with Swivel; Diameter 9 in., Height 12¾ in.

Per Dozen

No. FSE—Capacity 2¾ Gallons; Weight per dozen about 80 lbs. ... $8.50

TWIST BAIL.

Oak, Varnished, 4 Black Steel Hoops ⅝ in., Wrought Iron, Riveted, Half Strap Ears ⅝x8 in., Riveted; ¾ in. Iron Bail, with Twist; Diameter 9 in., Height 13 in.

Per Dozen

No. SE—Capacity 2¾ Gallons, Weight per dozen about 85 lbs. ... $7.70

One-third Dozen in a Bundle.

Oak, Varnished; 4 Black Steel Hoops ⅝ in., Riveted; Top Ears [illegible] Malleable Iron, Riveted, ¾ in. Iron Bail, with Twist, Diameter [illegible] in., Height [illegible] in.

Per Dozen

No. T1—Capacity 2¾ Gallons; Weight per dozen about 85 lbs. ... $7.50

Oak, Varnished; 4 Black Steel Hoops ⅝ in., Riveted; Top Ears 1⅛x2¾ in., Malleable Iron, Riveted, ¾ in. Iron Bail, with Twist Diameter 9 in., Height 12¾ in.

Per Dozen

No. NTE—Capacity 2¾ Gallons; Weight per dozen about 80 lbs. ... $7.50

One-third Dozen in a Bundle

STABLE BUCKETS.

STABLE BUCKETS OR HORSE PAILS.

AXTELL

White Oak, Varnished; Flush Bottom; Steel Ears, Riveted, 3 Steel Hoops ⅝ in., [illegible] Coppered Wire Bail, with Malin Wood Grip; Diameter 12½ in.; Height 10¼ in.

Per Dozen

No. 4—Capacity 4 Gallons, Weight per dozen about 65 lbs. ... $10.50

One-half Dozen in a Bundle.

MEASURES.

FARMER BOY, SHEET STEEL; 3 Beads on Side; Corrugated Bottom, Wired Edge; Double Seamed; Stamped Steel Side Handles, Riveted; Diameter Top 12¾ in.; Diameter Bottom 11 in.; Height 10 in.

HALF-BUSHEL.

Per Dozen

No. A—JAPANNED; Weight per dozen about 32 lbs. ... $5.00

No. B—GALVANIZED; Weight per doz. about 42 lbs. ... 6.50

FARMER BOY, SHEET IRON; 3 Beads on Side; Corrugated Bottom, Wired Edge; Double Seamed; Stamped Steel Ears, Riveted, Stamped Steel Side Handles, Riveted; 6 Gauge Wire Bail, Diameter Top 12¾ in.; Diameter Bottom 11 in.; Height 10¾ in.

HALF-BUSHEL.

Per Dozen

No. A—JAPANNED; Weight per dozen about 34 lbs. ... $5.50

No. C—GALVANIZED; Weight per doz. about 44 lbs. ... 6.70

FARMER BOY; Sheet Iron; Corrugated Bottom; Wired Edge; Double Seamed.

ONE PECK.

Diameter at Top 10½ in.; At Bottom 8½ in.; Height 8⅜ in.

Per Dozen

No. JP—JAPANNED; Weight per doz. about 16 lbs. ... $4.00

No. GP—GALVANIZED; Weight per doz. abt. 22 lbs. ... 5.00

HALF-PECK.

Diameter at Top 8½ in.; At Bottom 6 in.; Height 6 in.

Per Dozen

No. JHP—JAPANNED; Weight per doz. abt. 12 lbs. ... $2.70

No. GHP—GALVANIZED; Weight per doz. abt. 16 lbs. ... 3.60

One Dozen in a Crate

McKIM

18 Gauge Sheet Steel, Painted Red; Corrugated Bottom, Double Seamed; Riveted Side, Folded Top Rim with Handle Grip Pressed Out on Each Side; Diameter 12 in.; Height 9¾ in.

Per Dozen

No. HBA—CAPACITY ½ BUSHEL; Weight per dozen about 55 lbs. ... $7.50

One-third Dozen in a Crate.

ONE PIECE BAR Wood Sides, 1¾ [illegible] Wood Hoops, Top Rim; ½ in. [illegible] Bottom; Two ½ [illegible] Iron Bands Down Sides and Across Bottom, With One Piece WOOD BOTTOM

No.	WBB	WP	WHP	WQP
Size	Half Bushel	Peck	Half Peck	Quarter Peck
Diameter, inches	14	11½	9	7
Height, inches	9	7	5½	4½
Weight dozen about lbs	36	24	15	12
Per dozen	$5.70	5.20	4.50	3.60

One-half Dozen in a Crate.

STEEL WIRE BASKETS.

8 Gauge Wire Top and Bottom Rims; Two 8 Gauge Cross Wires; 8 Gauge Wire Handles, Wrapped with 12 Gauge Wire, securely Fastened to Top Rim.

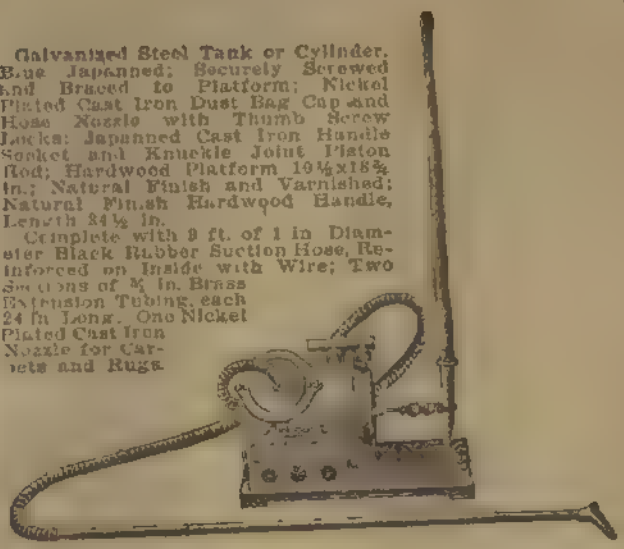
The Body Wires are Wrapped around Top and Bottom Rims and are Laced to the Cross Wires by Copper Wire, making it a very Rigid and Durable Article.

No.	½BW	1BW
Capacity, bushels	½	1
Diameter, inches	15¼	17½
Height, inches	10	13
Weight per dozen about, lbs.	55	70
Per dozen	$11.50	13.50

One-half Dozen in a Bundle

VACUUM CLEANERS.

DELMAR.



Galvanized Steel Tank or Cylinder, Blue Japanned; Securely Screwed and Braced to Platform; Nickel Plated Cast Iron Dust Bag Cap and Hose Nozzle with Thumb Screw Locks; Japanned Cast Iron Handle Socket and Knuckle Joint Piston Rod; Hardwood Platform 10½x18¾ in.; Natural Finish and Varnished; Natural Finish Hardwood Handle, Length 34½ in.

Complete with 9 ft. of 1 in. Diameter Black Rubber Suction Hose, Reinforced on Inside with Wire; Two Sections of ⅝ in. Brass Extension Tubing, each 24 in. Long. One Nickel Plated Cast Iron Nozzle for Carpets and Rugs.

Each

No. B—DELMAR; Height to Top of Machine 12½ in.; Size of Platform 10½x18¾ in.; Length of Tank 10½ in. Diameter of Tank 9¾ in.; Height of Handle when Adjusted in Socket 40 in.; Length of Hose 9 ft.; Length of Brass Tube 48 in.; Width of Carpet Nozzle 7½ in.; Net Weight of Each Machine 15 lbs.; Weight each (Crated) 30 lbs. $16.00

One in a Crate.

Has Blower Attachment as well as Suction Nozzle.

CONSTRUCTION: The DELMAR Vacuum Cleaner has the Improved Feature of having only one Diaphragm, so that it is operated only from one end and yet produces the same amount of Suction as any Two Diaphragm Machine. This has been accomplished by placing the two Suction Chambers Face to Face at one end of the Machine; thus only one Diaphragm is required. This Diaphragm is made from the best Chromed Leather to be had, and will, therefore, last indefinitely. The Suction is created alternately in the two Chambers by the Backward and Forward Movement of the one Diaphragm as the Handle is moved To and Fro.

When the Handle is moved forward the Diaphragm is pushed forward in unison, and as the Diaphragm goes forward the air is sucked in from the main Vacuum Chamber, THROUGH THE HOSE AND DUST BAG and on into the Back Suction Chamber, getting its connection from a Channel at bottom of Machine, and, as the Movement is reversed or Handle pushed Backward, the air is sucked into the Forward Suction Chamber, Direct through the Valve Opening and on into the Main Vacuum Chamber. Thus in the same manner as the air is alternately sucked from the Main Vacuum Chamber into the two Suction Chambers, so also it is alternately EXHAUSTED through the top two Valves or Blower Attachments.

CONTINUOUS SUCTION: While the Exhaust through the Blower is intermittent (or in Puffs), the intake of air through the Hose is continuous. This can be easily demonstrated by removing the Tubing from the Hose and pressing the Hose together until it is almost entirely closed, and by holding end of Hose near to the ear a continuous intake of air can be heard.

BLOWING FEATURE. By simply reversing the Hose and placing the end which ordinarily goes into the Dust Cap Opening on the Blower Attachment at top of Machine, the operation is thus reversed and a strong Blowing Power is obtained. This Blowing Feature is only found on high priced Electric Power Machines and is extremely valuable for cleaning between and behind Radiators or Closets, Drawers and beneath heavy Furniture; can also be used for drying Hair, etc.

Full Directions how to Operate furnished with each Machine.

‡VACUUM CLEANERS.

STANDARD

Each

‡No. 1D—For Direct Current..... $120.00

‡No. 1A—For Alternating Current (Specify Voltage and Number of Cycles) 120.00

In ordering Standard Vacuum Cleaners always specify if wanted for Direct or Alternating Current.

Packed One Complete Outfit in a Box. Weight Each about 75 lbs.

Full Directions how to operate furnished with each Machine.

EXTRA TOOLS FOR Nos. 1D AND 1A STANDARD VACUUM CLEANERS.

Each

‡No. 1—3 in. Three Cornered Metal Floor Nozzle; Weight each about ½ lbs. .....

‡No. 2—10 in. Blower Tool, for Blowing; Weight each about 2 lbs. 2.00

‡No. 3—10 in. Rubber Tufter, for Cleaning Tufted Furniture; Weight each about 1 lbs. 1.60

‡No. 4—4½ in. Curved Aluminum Furniture Nozzle, for Cleaning Tufted Furniture; One 4½ in. Curved Aluminum Furniture Nozzle for cleaning Upholstered Furniture, Curtains and Draperies; Weight each about ½ lb. 2.50

Tank made of Heavy Sheet Steel, White Japanned, with Gold Striping. Fitted with Nickel Plated Spun Brass Removable Top; Heavy Leather Side Handles; Hardwood Base, Mahogany Finish, with Four Ball Bearing Casters.

Complete with 24 ft. Reinforced Covered Electric Wire Cord; 12 ft. Wire Reinforced Black Rubber Suction Hose; One 6 ft. Piece Nickel Plated Steel Tubing; One 3 in. Three Cornered Metal Rug or Carpet Tool; One 10 in. Metal Blower Tool; One 10 in. Rubber Tufter for cleaning Tufted Furniture; One 4½ in. Curved Aluminum Furniture Nozzle for cleaning Upholstered Furniture, Curtains and Draperies.

Fitted on inside with an Electric Motor and Suction Fan especially built for this machine. The Fan is attached directly to the Motor Shaft, hence there are no Cogs or Gears necessary; the Dust and Dirt is sucked into Cloth Dust Bags (suited beneath cover at top of Machine) by means of Vacuum Fan through Hose.

Owing to the Rapid Motion of the Electric Motor on all Vacuum Cleaners run by Electric Power, this Fan Suction Principle has been found to be far more Practical and Durable than the Diaphragm Suction or Bellows used on other Machines.

By reversing the Hose from Suction Nozzle and attaching it to the Nozzle at top of Machine a strong Blowing Force is obtained which is very useful in blowing Lint, Dirt, etc., from between and behind Radiators, Heating Coils, Registers, Drawers, etc. It may also be used for Drying Hair.

The net Weight of the Machine is 43 lbs., and owing to the Ball Bearing Casters attached to the Base it can be easily moved around without much Exertion. Diameter of Tank 12½ in., Height over all 33 in.

PANTRY STEP LADDERS.

Showing Steps Open.

Molding; One Japanned Steel Rod Brace, Three Wood Braces, Wood Steps, each Step, Top Shelf [illegible] 13¼x4¾ in.; Height, Open [illegible]

Each

No. 11—PLAIN White Wood.... $3.50

No. 12—ASH, Varnished 5.00

Packed Loose; Weight Each about 8 lbs.

‡Goods marked thus ‡ are not carried in stock and can only be purchased by shipment direct from factory.

STEP LADDERS.

STEADFAST, MAHOGANY STAINED WITH SHELF

Second Year Hard Pine Steps made of 1 in. Dressed Lumber, Mortised into Uprights; Japanned Malleable Iron Brackets Support Steps; Back Support made of ⅞x1¼ in. Hardwood Back Strips and Japanned Malleable Iron Brackets; Arched Steps 3½ x 2 in Hardwood Shelf Securely Riveted. Size of Uprights ⅞x2½ in.; Width of Steps 4½ in.; Size of Top Step 6¾x16 in.

Each Step Supported at Bottom with ¼ in. Steel Rod, which extends through the Uprights and is Bolted with Stamped Steel Washers on Outside. Each Step Reinforced with ⅛x2 in. Hardwood Truss at Center of Step beneath, which adds to the Strength of Ladder, and makes each Step Absolutely Safe and Rigid.

Fitted with Patent ½ in. Japanned Steel Self-locking Brace, with 3½ in. Round Wood Grip for Opening and Closing.

Nos.	S 4	S 5	S 6	S 7	S 8	S 10	S 12
Feet	4	5	6	7	8	10	12
Width, inches	18¾	20	21½	22	24½	27½	30½
Wgt. each abt., lbs.	15	19	23	26	30	35	48
Each	$2.00	2.40	3.00	3.50	3.70	4.70	5.70

HOLDFAST, STAINED GREEN WITH SHELF

Second Year Hard Pine Steps made of ⅞ in. Dressed Lumber, Mortised into Uprights; Japanned Stamped Steel Top Cast Iron Steps Support Each Step; Back Support made of ⅞x1¼ in. Hardwood Back Strips; Each Joint Securely Nailed and Fastened with Wrought Steel Staples 7x12 in. Width Each Step; Shelf Steel Riveted to Uprights ⅞x2½ in.; Width of Steps 4½ in.; Size of Top Step 7½x13 in.

Each Arched Step Supported at Bottom with ¼ in. Steel Rod, which extends through the Uprights and is Bolted with Stamped Steel Washers on Outside. Each Step Reinforced with ⅛x2 in. Hardwood Truss at Center of Step beneath.

Fitted with Patent ½ in. Japanned Steel Self-locking Brace, with 3½ in. Round Wood Hand Grip for Opening and Closing.

Nos.	H4	H5	H6	H7	H8	H10	H12
Feet	4	5	6	7	8	10	12
Width, inches	18¾	20	21½	23	24½	27½	30½
Wgt. each about, lbs	15	19	23	26	30	35	48
Each	$1.30	1.60	2.00	2.40	2.70	3.50	4.50

EXCELSIOR, WITHOUT SHELF

Clear, Hard Norway Pine; Top Step 16½x8½ in., Braced by Black Japanned Malleable Iron Bracket, 4½ in. Steps Mortised and Fastened with Anchor Shaped Irons; Back Strips and Cross Bars Clamped to Legs by Bands, which prevents Splitting. Legs Locked in any Position by Brace; Brace not used on Ladders Longer than 8 ft.; Sides 2½ in. Wide.

Nos.	X3	X4	X5	X6	X7	X8	X10	X12	X14
Feet	3	4	5	6	7	8	10	12	14
Width, inches	13	15½	17	22	24	25	28	31½	34½
Wgt. ea. abt., lbs	10	13	16	18	22	25	32	45	60
Each	$2.50	3.00	3.50	4.00	4.50	5.00	6.00	$8.00	12.00
	2.00	2.70	3.00	3.80	4.50	5.00	6.00	8.00	10.00

Steps 3½ in. Wide, Mortised; Sides 2½ in. Wide; Back Strips Braced by Cross Bars.

STANDARD WITH SHELF

Pine, Yellow Stained Top Step 5½x12 in. Spread 15x17 in.

Nos.	3	4	5	6
Feet	3	4	5	6
Wgt. ea. abt. lbs.	10	14	15	16
Each	$0.90	1.00	1.10	1.20
Nos.	7	8	10	
Feet	7	8	10	
Wgt. ea. abt. lbs.	18	20	30	
Each	$1.40	1.70	2.00	

Packed Loose.

STEP LADDERS.

Steps 3 in. Wide; Mortised Sides 2½ in. Wide; Back Steps Braced by Cross Bars.

LADDERS, WITHOUT SHELF

Pine, Yellow Stained Top Step 5½x12 in.

Nos.	L4	L5	L6
Feet	4	5	6
Wgt. each about, lbs	11	14	16
Each	$0.90	1.10	1.20
Nos.	L7	L8	
Feet	7	8	
Wgt. each about, lbs	20	22	
Each	$1.30	1.60	

Packed Loose.

LONG LADDERS.

PLAINING MILL STOCK.

Steps 3 in. Wide; Mortised and Nailed to Sides; Sides 1¾ in. Wide at Bottom, 1¼ in. Wide at Top, 1¼ in. Thick; Steps Spaced 11 in. Apart Measured on Outside; Ladders 4 ft. Wide at Bottom, 2 ft. Wide at Top; Rungs 1¼ in. Diameter; Mortised and Nailed to 2½x1¼ in. Sides.

Nos.	P10	P12	P14	P16	P18	P20
Length feet	10	12	14	16	18	20
Weight each about, lbs	18	23	27	30	34	38
Each	$2.40	2.80	3.30	3.80	4.50	5.00

Packed Loose.

EXTENSION LADDERS.

Made in Two Sections; Norway Pine, Yellow Stained Sides 1¾x3¼ in. Rungs 1¼ in. Diameter, Mortised and Nailed. Japanned Wrought Iron Safety Cross Bars, Self-locking Grip Malleable Iron Hooks, by means of which the Ladder can be adjusted without Difficulty.

Nos.	20	22	24	26
Length feet	10	22	24	26
Length Extended, ft.	19½	21½	23½	25½
Weight each about, lbs	45	55	60	65
Each	$6.00	7.00	7.50	8.00
Nos.	30	34	38	
Length feet	30	34	38	
Length Extended feet	29½	31½	35½	
Weight each about, lbs	70	75	100	
Each	$9.00	10.00	12.00	

Packed Loose.

‡SHELF LADDERS.

Ladder is 12 in. Wide; Steps 8 in. Wide; Height between Steps 11 in.; Open Panel Sides 6 in. Wide. Track is Double Angle Steel Rail 2½ in. Wide; Trolley is provided with 2 in. Anti-Rattler Wheels, with Rubber Tires.

‡MYERS' TROLLEY ROLLING SHELF LADDERS.

Prices do not include Track.

	Each
‡No. 15—Myers' Georgia Pine Ladders with Malleable Iron Fixtures, Complete with Trolley and Rubber Tired Floor Wheels	$20.00

‡SHELF LADDER TRACKS

	Per Foot
‡No. 15—Myers' Steel Track 2½ in. Wide, Complete with Hangers Bolts Diameter ½ in.	$0.30

INSTRUCTIONS

In ordering give following Measurements: Entire Length of Track required; Height of Ceiling from Floor.

Crated in any Quantity; Average Weight per Ladder about 50 lbs.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

CORN SHELLERS

These Shellers are Closely Mortised, Full Bolted and Well Finished, the Wood is Perfectly Seasoned and will not Crack nor Warp. The Frames are Rigid and will not Rack Loose. They are Easy Running and Rapid Shellers.

DERBY
For Hand or Power

With Fan, Feed Table, Crank and Power Pulley, Varnished Hardwood Frame and Box with Green and Red Stripes; Mortised and Full Bolted Frame, Strongly Built. Shells Cob Clean and Discharges it at End of Sheller. Each

No. DT—Two Hole, with Fan and Feed Table, Capacity 20 to 30 Bushels per Hour; Curled Iron Grinders, Steel Shafts; Babbitted Journals, Opening of Throats 4 inches Each; Diameter of Fly Wheel 37 inches; Height of Box 40 inches; Width 30 inches; Thickness 8½ inches, Length and Bottom Bars 175 inches; Length of Table 21 inches; Depth 3 inches; Greatest Width 19 in., Weight 235 lbs. $32 00

No. D —Without Table, Weight About 220 lbs. Otherwise same as Above. 31.50

QUEEN

Varnished Hardwood Frame and Box, with Green and Red Stripes and Decorations. Mortised and Full Bolted. Shafts are Steel and Run in Metal Boxes. Steel Spokes in Balance Wheel. Shells the Cob Clean and Discharges Cob at End of Sheller. The Fan in the Corn Thoroughly Cleans the Corn. Each

No NOT One Hole Capacity 15 to 20 Bushels per Hour; Curled Iron Grinders, Steel Shafts; Babbitted Journals; Opening of Throat 4 inches Each; Diameter of Fly Wheel 37 inches; Height of Box 40 inches, Width 24 inches, Thickness 8½ inches; Length of Bottom Bars 17½ inches; Length of Table 21 inches; Depth 3 inches; Greatest Width 15 inches; Weight 125 lbs. $16 00

No NO —Without Table, Weight About 112 lbs. Otherwise same as Above. 14 00

MISSISSIPPI VALLEY

Varnished Hardwood Frame and Box, with Green and Red Stripes and Decorations. Mortised and Full Bolted. Shafts are Steel and Run in Metal Boxes. Steel Spokes in Balance Wheel. Shells the Cob Clean and Discharges it at End of Sheller. The Fan Cleans the Corn Thoroughly Each

No. MYT—One Hole: Capacity 20 to 30 Bushels per Hour; Chilled Iron Grinders; Steel Shafts; Opening of Throat 5¾ inches; Diameter of Fly Wheel 37 inches; Height of Box 42 inches, Width 25 inches, Thickness 8½ inches; Length of Bottom Bars 17½ inches; Length of Table 25 inches, Depth 3 inches; Greatest Width 14 inches; Weight 130 lbs. $16.00

No. MY —Without Table: Weight About 115 lbs. Otherwise Same as Above. 15 00

"DIAMOND EDGE IS A QUALITY PLEDGE"

WATER BAGS

DESERT

Utilizing the Combination Principle—Capillary Attraction and Evaporation, a Natural Action of Refrigeration

Every Desert Water Bag Guaranteed

A durable, portable water cooler and container that keeps water cool and palatable for several days, even when exposed to a blazing mid-summer sun, without the use of (unhealthy) ice.

Cooled by the air—The warm properties are drawn to the outer surface by capillary attraction and evaporate.

No other water carrier has the same merits; they cannot be broken, will stand rough handling, are very handy when filled and can be folded when empty

It is the most practical, sanitary, economical utility ever produced for the purpose.

SUPERIOR FEATURES

The material is a specially woven fabric made of pure (imported) flax; inferior imitations apparent upon comparison and test.

The side and bottom seams are double-stitched and the seams are on the inside, entirely protected—outside seams are not safe or practicable

At the top (inside) is a brace or spreader made of a strong, flexible water-reed—cheaper constructed bags do not have this -it is very essential.

The Sanitary, Strong, White Enameled vitrious spout (and the secure way it is bound in) is a decided improvement and unequaled.

Faucet Style

Nos.	1	2
Size, Inches	13x23½	17½x23½
Capacity, Gallons	3½	5
Weight Per Dozen, Lbs.	17	20
Per Dozen	$24.00	30 00
	32 00	40 00

Regular Style

Nos.	10	11	12	13
Size, Inches	10x12	11½x17	13x23½	17½x23½
Capacity, Gals	1	2½	3½	5
Wt. Dozen, Lbs.	6½	9½	13	15
Per Dozen	$10.20	15.00	18.00	24.00
	13.50	17.00	24 00	30.00

Motorcycle Style

No.	20
Size Inches	11x7
Capacity, Gallons	½
Weight Per Dozen, Lbs	5
Per Dozen	$ 7 80
	12 00

Hangs under back of the rear seat, or on front wheel guard, or on handle bars at the curve.

Automobile Style

Nos.	30	31	32
Size, In.	12x10	17x12	17½x23½
Cap., Gal.	1	2½	5
Wt. Doz., Lbs.	7	10½	16½
Per Doz.	$10.20	15.00	24 00
	13.50	18 00	32 00

Hung at left of front seat (outside.)

Combined Water Bag, Filter and Cooler Per Dozen

No. 40—23 in. High, 10 in. Diameter, Capacity 6 Gallons $54.00
68.70

Weight Per Dozen 42 Pounds

FOOTBALLS

*DIAMOND BRAND

In Our Diamond Brand Footballs we have Considered Quality above Every Other Feature; Only the Best Leather in Each Grade is Used, the Most Thorough Inspection is given each Ball before it Leaves the Factory, thereby Insuring Strength, Perfect Shape and Best Finish.

Guaranteed to Stand Hard Usage

RUGBY

American; Regulation Size, 27 inches. Welted Seams; Sewed with Linen Thread; Cloth Lined; Hand Finished; Best Quality, Two-piece **Pure Gum, Inspected Bladders** in Each Grade

	Per Dozen
No. 1000 Varsity; Complete with Lacing Needle; Very Highest Quality Imported Russia Grain Leather; Made for the Most Severe Play; Recommended to Colleges and Universities. True in all Proportions and Perfectly Symmetrical, will Positively not Lose its Shape; Every Ball Warranted; Weight per Dozen 13 lbs	$105 60
No. 100 —Inter-Collegiate; Complete with Lacing Needle; Extra Heavy Pebble Calf Leather; a Good Practice Ball for Professionals; Weight per Dozen 12 lbs.	72 60
No. 180½—High School. Good Quality Pebble Calf Leather; Weight per Dozen 12 lbs.	59 40

English; Regulation Size, 27 inches; Welted Seams; Sewed with Linen Thread; Drill Lined; First Quality, Two-piece **Composition, Inspected Bladders** in Each Grade.

	Per Dozen
No. 101 —Regulation; Heavy Pebble Cowhide Leather; Weight per Dozen 12¾ lbs.	$38 00
No. 101½—Good Quality Pebble Calf Leather; Weight per Dozen 11 lbs..	36.80
No. 102 —Pebble Saranac Leather; Weight per Dozen 10½ lbs.	33.00
No. 103 —Good Quality Oil Finished Pebble Leather; Weight per Dozen 9¾ lbs.	19.80
No. 104 —Fair Quality Oil Finished Pebble Leather; Weight per Dozen 9 lbs....	17.40

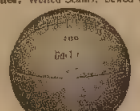
Twelfth Dozen in a Box

ASSOCIATION

English; Regulation Size, 27 inches; Welted Seams, Sewed with Linen Thread; Drill Lined

With Best Quality, Two-piece Pure Gum, Inspected Bladders; Duck Lined.

	Per Dozen
No. 200 —Gaelic; Complete with Lacing Needle; Very Highest Quality Imported Russia Grain Leather; Weight per Dozen 12¾ lbs...	$99 00
No. 200½—Regulation; Complete with Lacing Needle; Best Quality Pebble Cowhide Leather, Wt. per Dozen 12 lbs	79.20



With First Quality, Two-piece **Composition, Inspected Bladders;** Drill Lined.

	Per Dozen
No. 201—Regulation; Pebble Saranac Leather; Weight per Dozen 11 lbs.	$39 60
No. 202—Junior Association; Good Quality Brown Mocha Tanned Leather; Weight per Dozen 10½ lbs . . .	33 00

Twelfth Dozen in a Box

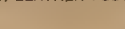
STANDARD RUBBER

Best Quality Black Rubber, Heavy Cloth Inside; Cemented Seams, Complete with Key

Nos.	1	2	3	4	5	6
Circumference, Inches	18	21	24	27	30	33
Weight per Dozen, Lbs.	3½	4¾	5	7	8¾	10
Per Dozen	$8 80	12 10	14 85	17 60	19 80	22 00

Loose

EXTRA KEYS FOR RUBBER FOOTBALLS



Per Dozen

No. EK—Brass Tube; Length 1¼ inches; Weight per Dozen 1 oz $0 80

Loose

EXTRA BLADDERS FOR LEATHER FOOTBALLS

RUGBY

ASSOCIATION

	Per Dozen
No. RB1—Pure Gum; Two-piece; Black; Inspected and Guaranteed Free from Defects in Material and Workmanship; Extra Large	$16.00
No. RB2—Composition; Two-piece; Black; Standard Size.....	10 50
No. AB1—Pure Gum; Two-piece, Black; Inspected and Guaranteed Free from Defects in Material and Workmanship, Extra Large.....	$16 50
No. AB2—Composition; Two-piece; Black; Standard Size.....	13 20

Average Weight per Dozen 2 lbs.

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

SKIS

*DIAMOND BRAND

Whenever the Snowfall is sufficient to make good, steady Sleighing, the use of Skis in work and play is becoming popular, and in those Regions where the Snow becomes deep as it does in the Mountains and Hilly Country and occasionally on the Prairies of Dakota and Minnesota, Skis are recognized as necessities.

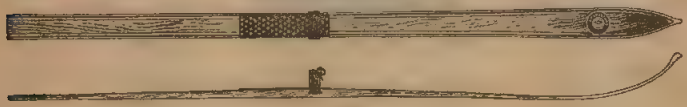
More Durable than Snow Shoes and allows the Wearer to cover more Ground in less time and with less fatigue.

All Diamond Brand Skis are made of Best Selected Material, thoroughly Kiln Dried, and free from Knots and Blemishes; Covered with several coats of Best Waterproof Varnish Each Ski provided with Suction Tread Rubber Foot Rests and Best Quality Black Harness Leather Toe Straps.

All Diamond Brand Skis are patterned after the Latest Approved Norwegian Models.

Cut Shows Suction Tread Rubber Foot Rests used on all Diamond Brand Skis.

Modeled on Practical, Proven Lines. Always Uniform throughout and will never Loose their Shape



PINE

Best Quality Selected Stock **Norway Pine;** Natural Wood Finish with several Coats Best Waterproof Varnish, Fancy Black Stripes, Single Grooved Bottom.

Nos.	P5	P6	P6	P7	P7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	3½	4¾	5½	7	9
Per Pair	$1.50	1 80	2.25	2 30	3 75

MAGNOLIA

Best Quality Selected **Magnolia;** Mahogany Finish with several Coats Best Waterproof Varnish, Fancy Grooved White Stripes; Single Grooved Bottom

Nos.	M4	M5	M6	M7	M7½
Length, feet	4	5	6	7	7½
Weight per Pair, lbs.	4½	5½	6	8	10
Per Pair	$3 30	3.90	4.20	4 65	5.00

ASH

Very Best Quality Selected **Ash,** the Best that can be Obtained on the Market Finished in Black with Fancy Grooved White Stripes, Single Grooved Bottom.

Nos.	A7	A7½	A8
Length, feet	7	7½	8
Weight per Pair, lbs.	11½	13	15
Per Pair	$6 00	6 65	7.70

THE CHAMPION, HICKORY

Very Best Quality Straight Grained Second Growth Hickory; Finished in Black with Fancy Grooved White Stripes Double Grooved Bottom. **This Ski is intended more particularly for a Leaping Ski, to be used by the Experts in the Leaping Contests. It is made after the Latest Norwegian Design as is Used by all Professionals.**

Nos.	H7	H7½	H8
Length, feet	7	7½	8
Weight per Pair, lbs.	12	14	16
Per Pair	$8 00	8.80	9.65

One Pair in a Bundle

"DIAMOND EDGE IS A QUALITY PLEDGE"

LANTERNS.

FOR KEROSENE.

ALL MADE OF IX TIN

WICKS INCLUDED IN ALL STYLES

Oval Tubes, Wire Lifting and Holding Device; No. 1 Steel Cone Burner, with ⅝ in. Wick; Oil Pot Capacity 1 Pint; Wire Bail; Height, with Bail Down, 13½ in.

HOT BLAST

IX Tin, BRIGHT; Diameter of Base 5⅝ in.

Per Dozen

No. 100—With No. 0 Tubular Globe $7.50

One Dozen in a Case. Weight per Dozen about 36 lbs

HOT BLAST, DASH

IX Tin, MAROON FINISH; DASH BOARD ATTACHMENT AND REFLECTOR; Diameter of Base 5⅝ in

Per Dozen

No. 125—With No. 0 PLAIN TUBULAR GLOBE $12.50

No. 150—With No. 0 BULL'S EYE TUBULAR GLOBE 13.00

One-half Dozen in a Case. Weight per Dozen about 32 lbs

COLD BLAST

IX Tin, Bright; Oval Tubes; Wire Lifting Device, No. 2 Cold Blast Tubular Steel Burner with 1 in. Wick, No. 0 Cold Blast Globe; Diameter of Base 5⅝ in.; Wire Bail, Height with Bail Down, 14 in.

Per Dozen.

No. 2—WITH No. 2 REGULAR FOUNT; Oil Pot Capacity 1½ Pints; Weight per dozen about 50 lbs $10.00

No. 200—WITH No. 200 EXTRA LARGE FOUNT, Oil Pot Capacity 2¾ Pints; Weight per dozen about 54 lbs. 14.50

One-half Dozen in a Case

DIETZ'S BEACON.

Fitted with 5 in. Silvered Glass Reflector, Polished Tin Hood, 6 in. Deep; Spiral Spring on the Back, for Attaching to Dash. Is an excellent Lantern for Night Driving and Stable use. Throws a Strong Light more than One Hundred Feet. For Coal Oil; Top Lever Lift; Square Tubes; No. 1 Long Cone Steel Tubular Burner, which brings the light directly in front of the Silvered Glass Reflector, uses ⅝ in. Wick (no Wick included); No. 0 Globe. Oil Pot Capacity 1¼ pints. Height 13¾ in., Diameter of Base 5⅛ in

Per Dozen

No. 180—Tin; Weight per dozen about 70 lbs..... $32.00

One-half Dozen in a Case.

LANTERNS.

ALL LIBERTY RAILROAD LANTERNS HAVE WICKS FITTED TO BURNERS, READY FOR USE.

LIBERTY RAILROAD.

All Liberty Railroad Lanterns are made of Heavy Tin and Heavy Steel Wire; the Tops are Drawn from One Piece of Material and are Without Seams.

The Frames, after being Set up and Soldered, are Submerged in a Vat of Hot Block Tin. This Process Double Solders every connection and gives a Fine Bright Finish as well as making them Rust proof.

The Wind Guard is held in place with a Heavy Coil Spring which allows the Collar to fit perfectly the Top of the Globe regardless of whether the Globe is of exactly the right length or not.

All Liberty Railroad Lanterns are furnished with our Regular No. 39 Globes.

Double Wire Guards; Tin Bottom, Seamless Bottom Oil Cup, held in place by a simple and most secure Brass Side Spring Fastening; Removed by pressing Spring outward and turning Oil Cup half-way around; Inside Wick Raiser. Diameter of Bottom 7½ in.; Height to Top of Dome 10½ in.

Per Dozen

No. 1R1—With No. 1 Lard Oil Ratchet Burner, Fitted with No. 1 Flat Wick, Oil Pot Capacity ½ Pint $14.50

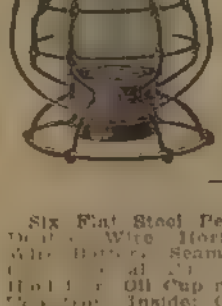
No. 1R2—With No. 2 Lard Oil Ratchet Burner, Fitted with No. 2 Flat Wick, Oil Pot Capacity ½ Pint 15.00

Double Wire Guards, Tin Bottom, Seamless Bottom Oil Cup, held in place by a simple and most secure Brass Side Spring Fastening, Removed by pressing Spring outward and turning Oil Cup Half-way around. Inside Wick Raiser. Diameter of Bottom 7½ in.; Height to Top of Dome 10½ in.

Per Dozen

No. 2R1—With No. 1 Lard Oil Ratchet Burner, Fitted with No. 1 Flat Wick; Oil Pot Capacity ½ Pint $15.00

No. 2R2—With No. 2 Lard Oil Ratchet Burner, Fitted with No. 2 Flat Wick; Oil Pot Capacity ½ Pint 15.50



Double Wire Guards, Tin Bottom, Seamless Bottom Oil Cup, Special Friction Oil Cup Holder; Oil Cup removed through Top from Inside; Outside Wick Raiser. Diameter of Bottom 7½ in., Height to Top of Dome 10½ in

Per Dozen

No. 3R1—With No. 1 Lard Oil Ratchet Burner, Fitted with No. 1 Flat Wick, Oil Pot Capacity ½ Pint $15.50

No. 3R2—With No. 2 Lard Oil Ratchet Burner, Fitted with No. 2 Flat Wick, Oil Pot Capacity ½ Pint 16.00

Six Flat Steel Perpendicular and Three Wire Horizontal Guards, Tin Bottom, Seamless Bottom Oil Cup, Special Friction Oil Cup Holder; Oil Cup removed through Top from Inside; Outside Wick Raiser. Diameter of Bottom 7 in.; Height to Top of Dome 10½ in.

Per Dozen

No. 4R1—With No. 1 Lard Oil Ratchet Burner, Fitted with No. 1 Flat Wick; Oil Pot Capacity ½ Pint $17.50

No. 4R2—With No. 2 Lard Oil Ratchet Burner, Fitted with No. 2 Flat Wick; Oil Pot Capacity ½ Pint 18.00

One-half or One Dozen in a Case; Weight per Dozen about 45 lbs.

LANTERNS.

ALL LIBERTY RAILROAD LANTERNS HAVE WICKS FITTED TO BURNERS, READY FOR USE.

LIBERTY RAILROAD.

Upright Globe Guards, Heavy Twisted Wires; Horizontal Wires, No. 10 Tinned Wire; Fitted with No. 39 White Globe; Seamless Tin Receptacle that holds the Oil Fount is provided with two Flat Steel Springs to hold the Fount rigid; Oil Pot Capacity 6 ounces, IX tin Canopy, Wire Bound around Outer Edge and Hinged in Rear to the Globe Guard; the Front is fitted with a Spring Catch, which is easily released for Removing Globe; the Center of the Canopy is fitted with a Tin Plate, which is attached to a Spring and engages the Extreme Top of the Globe to hold it Steady; No. 9 Wire Bail attached to Extensions from Top of Globe Guard.

WIRE BASE, No. 6 Wire forms the Bottom Rim, Diameter 7½ in.; Height to Top of Canopy 10 in.; Wick Regulated from Outside without removing Globe.

Per Dozen

No. 39WL—FITTED WITH No. 1 LARD OIL BURNER and No. 1—⅝ in. Flat Wick.....$15.50

No. 39W—FITTED WITH No. 1 KEROSENE OIL BURNER and No. 1—⅝ in. Flat Wick..... 15.50

IX TIN BASE, Wire Bound at Lower Edge; Diameter 6½ in.; Height to Top of Canopy 9¾ in.; Wick Regulated from Outside without removing Globe.

Per Dozen

No. 39L—FITTED WITH No. 1 LARD OIL BURNER and No. 1—⅝ in. Flat Wick.....$15.00

No. 39—FITTED WITH No. 1 KEROSENE OIL BURNER and No. 1—⅝ in. Flat Wick..... 15.00

Packed Loose. Weight per Dozen about 45 lbs

RAILROAD.

Height to Top of Canopy 9½ in.; Concave Base; Rolled Rim, Diameter 5¾ in.; FOR LARD OIL; Ratchet Burner, uses ⅝ Flat Wick (Wick included); No. 3 Conductor's Globe; Side Spring Fastens Top to Bottom; Oil Pot Screws to Bottom, Capacity ¾ Pint, ⅛ in. Wire Globe Guard, 5/16 in. Wire Bail, Canopy Hinges to Globe Guard. Fastens with Spring; Brass Sleeve in Canopy on protected Spring to Hold Globe Stationary.

Per Dozen

No. 3 C—Extra Heavy Brass, Nickel Plated; Weight per dozen about 48 lbs. $110.00

One Dozen in a Case, Wrapped in Paper.

STATION LAMPS.

FOR KEROSENE.

HEAVY TIN FRAME, BOTTOM AND BACK, BLUE JAPANNED; Back Provided with Catch to Hang Lamp; Tin Fount; Brass Burner; Swinging Front Door.

Each

No. 101H—Glass Panels 8x10 in.. Height over all 13¼ in.; No. 1 Burner, Wick and Chimney; 7 in. Silvered Glass Reflector Oil Fount Capacity ¾ Pints; Weight each about 12 lbs.....$4.30

No. 102H—Glass Panels 10x12 in.; Height over all 15¾ in.; No. 2 Burner, Wick and Chimney; 8 in. Silvered Glass Reflector; Oil Fount Capacity 1¼ Pints; Weight each about 13 lbs..... 5.40

No. 103H—Glass Panels 12x14 in.; Height over all 20¾ in.. No. 2 Burner, Wick and Chimney; 10 in. Silvered Glass Reflector, Oil Fount Capacity 1½ Pints; Weight each about 14 lbs..... 5.80

One Complete Lamp in a Box.

STREET LAMPS.

FOR KEROSENE.

IX TIN, ENAMELED DARK GREEN; Heavy Wire Hook attached to Side Tubes to support the Globe when Raised, No. 9 Globe; NO CHIMNEY REQUIRED; No. 3 Brass Burner; No. 3—1½-in. Flat Wick; Outside Wick Regulator and Filler Cap; Removable Fount, Holds Sufficient Oil to Burn 24 Hours and Equipped with a Time Regulating Device, Adjustable to Burn a given number of hours; Can be Filled, Lighted and Regulated without Removing Globe; Cold Blast Top, making the Lamp Absolutely Wind proof

POST, TUBULAR.

Each

No. 103 S—Height from Bottom of Socket to Top of Canopy 26½ in.....$8.50

One in a Case; Weight Each about 20 lbs.

HANGING, TUBULAR.

Each

No. 104 S—Height from Bottom to Top of Canopy 24¼ in.....$6.00

One in a Case; Weight Each about 20 lbs.

DASH AND BUGGY LAMPS.

NEVEROUT—FOR KEROSENE.

Brass Throughout, except Tin Reflector, Oil Fount and Burner; Height over all 3⅛ in. Without Brackets. Fitted with a Red Semaphore 2⅛ in. in Diameter in Rear; Convex Lens 3⅛ in. in Diameter, held in position by a Wire Spring, easily Removed and Replaced; Door Hinged, and fastens with a Flat Spring; Top Bail ¼ in. in Diameter, Flat Wick Burner, with No. 1 Flat ⅝-in. Wick, The Burner Shank comes in contact with the Top of the Fount to prevent the Wick from jarring down; Wick can be Regulated without removing the Fount, Fount held in position by an Under Plate, which fastens by two lugs on the Side of Lamp, and fitted with Two Springs in the Bottom to prevent the Under Plate from turning and coming off; Directions for Operating Accompanies Each Lamp.

Per Dozen

No. 44R—RIGHT; with No. 46 Bracket; Large Red Jewel on Right Side of Lamp, Left Side fitted with Loop to Fasten to Bracket..... .....$59.00

No. 44L—LEFT; with No. 46 Bracket; Large Red Jewel on Left Side of Lamp; Right Side fitted with Loop to Fasten to Bracket..... 59.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 30 lbs

BRACKETS FOR "NEVEROUT" LAMPS.

Per Dozen

No. 53 C—Cast Iron, Black Japanned; Plate 2¼x3 in., with Three Screw Holes to Fasten to Vehicle; Finger Iron to fit Lamp Extends 2 in..$3 00

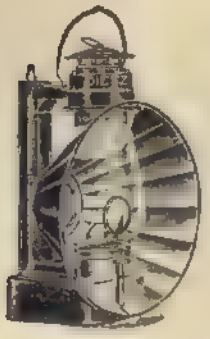
Per Dozen

No. 46—Cast Iron; Black Japanned; Made with Double Catch and Wing Nut Fastening for Dashboard; Finger Iron to fit Lamp Extends 3 in..$4.30

Packed Loose; Weight per Dozen about 6 lbs.

SEARCH LIGHTS

DIETZ COLD BLAST

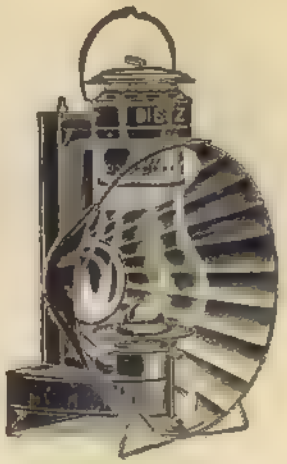


Each

No. 30 15¼ in. High, Blue Japanned, Bright Tin Reflector, 7 in Deep, 12 in. Across, Bull's Eye Lens on Perforated Plate, No 2 Burner, 1 in. Wick, No. 2 Cold Blast Globe, Gives a Light of Over 50 Candle Power, Fount Holds Oil to Burn 25 Hours....$3 50

Weight Per Box 26 Pounds

Three in a Box



Each

No. 60—20½ in. High, Blue Japanned, Bright Tin Reflector, 8 in Deep, 16 in. Across, 5 in. Silvered Glass Reflector, No. 3 Short Shaft Burner, 1½ in. Wick, No. 2 Tubular Globe, Gives a Light of Over 100 candle Power, Fount Holds Oil to Burn 30 Hours $8.00

Weight Each 24 Pounds

One in a Box

STREET LAMPS

PIONEER, COLD BLAST

No 3

Each

No. 3—26 in. High, Painted Green, No. 3 Burner, 1½ in. Wick No. 3 Pioneer Globe, Self-Extinguishing Device, Gives a Light of 22 Candle Power, Fount Holds Oil to Burn 24 Hours, for Either Post or Bracket. $9 00

This Lamp has a device whereby it can be set to burn for a fixed number of hours and then automatically extinguish itself. It does not smoke and is not affected by the strongest winds. Easily kept clean, gives good service for years.

Weight Each 25 Pounds

One in a Box

POLICE LANTERNS

DIETZ "FLASH" LENS

Cut Showing Bail Raised

Per Dozen

No 3 —8 in. High, 3 in Bull's Eye Lens, Tin, Japanned Brown, Two Tube Signal Oil Burner, with Improved Combination Handle or Bail and Flash Light Attachment.....$12.00

The slide is revolved either backward or forward by the thumb of the left hand holding the lantern, leaving the right hand free. Fount holds sufficient oil to burn 18 hours.

Weight Per Dozen 22 Pounds

Two Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

ELECTRIC FLASH LIGHTS

EVEREADY

MINERS'

Vulcanized Fiber Case, Large Lens and Reflector

	Each
No. 2619—8½x1⅛ in., 3½ Volt Lamp, with Tungsten Battery and Mazda Bulb	$4 50
No. 705—Renewal Tungsten Battery	60
No. 1193—Renewal 3½ Volt Mazda Bulb	

The Miners' Flash Light spreads and intensifies the light in a manner that better adapts it for many purposes. Can be used by miners to advantage for exploring underground passages.

The Tungsten Battery is guaranteed to have four times the strength of any dry battery of other make and to retain its strength four times longer.

VEST POCKET SIZE

Nos. 6900 & 6961

No. 6962

Brass Case, Heavily Nickel Plated and Polished

	Each
No. 6900—Midget, 2⅛x1½x¼ in., Tungsten Battery and Mazda Bulb	$1.54
No. 700—Renewal Tungsten Battery	.39
No. 1179—Renewal Mazda Bulb	.80
No. 6961—2⅞x1⅝x¾ in., 2½ Volt Lamp, Tungsten Battery, Mazda Bulb, Contact Button Represents a Jewel	1.60
No. 750—Renewal Tungsten Battery	.40
No. 1180—Renewal 2½ Volt Mazda Bulb	.80
No. 6962—2⅞x2x¾ in., 3½ Volt Lamp, Otherwise Same as No. 6961	1.96
No. 751—Renewal Tungsten Battery	.52
No. 1181—Renewal 3½ Volt Mazda Bulb	.80

Note—May be had also in sterling silver and 14 carat gold.

GASOLINE WALL TORCHES

	Per Dozen
No. 1—Single Burner, Japanned, Capacity of Tank 1 Gallon, Brass Globe Valve and Generating Burner, Weight Per Dozen 50 Lbs.	$24.00

	Per Dozen
No. 2—Double Burner, Japanned, Capacity of Tank 1 Gallon, Brass Globe Valve and Generating Burner, Weight Per Dozen 60 Lbs.	$42 00

	Each
Extra Burners for Gasoline Wall Torches	$1 30

ELECTRIC SHOWER LIGHTS.

NO BULBS INCLUDED

FOR BED ROOMS OR RECEPTION HALLS

Solid Brass Ceiling Plate and Link Chain Hangers, Satin Finish; Wired Throughout; Fitted with New Wrinkle Key Sockets, 2¼ in. Shade Holders

Extreme Length 12 in.; Size of Ceiling Plate 14x7 in.; Complete with No. 500/CS Frosted Shades with Clear Crystal Stripes

Each

No. S. 1004 — TWO LIGHT; Weight each about 10 lbs. $7.00

Extreme Length 14 in.; Diameter of Ceiling Plate 12 in.; Complete with No. 61[illegible] Frosted Shades with Clear Crystal Stripes

Each

No. S. 1008/2—TWO LIGHT. Weight each about 15 lbs. $6.50

No. S. 1008/3—THREE LIGHT. Weight each about 20 lbs. 8.50

Packed Loose

GAS SHOWER LIGHTS.

SUITABLE FOR LIBRARY, DINING OR LIVING ROOM.

Also Suitable for Large Reception Halls and Bed Rooms.

Complete with Inverted Gas Burners, Mantles, Glassware and Pull Chain By-pass Attachments to extinguish Light from Bottom of Fixture, thereby preventing the Breaking of Mantles; Ceiling Canopy 4½ in. Square; ⅜ in. Iron Pipe in Interior of ⅜ in. Brass Casing, fitted with Connection to attach to Outlet in Ceiling.

Complete, Ready For Use.

Fitted With Pull Chain By-Pass.

The Newest Styles.

Length from Top of Adjustable Ceiling Canopy to Bottom of Cylinders 50 in.; 21 in. Spread.

Brass Metal Parts, Brushed Brass Finish; Brass Gas Pipe extends through Center of Links of the Chain. Fitted with four 6-in. Octagon Mission Design Gas Cylinders, with Frosted Panels and Clear Lines.

No. 1050 As Described; Weight each about 50 lbs. $30.00

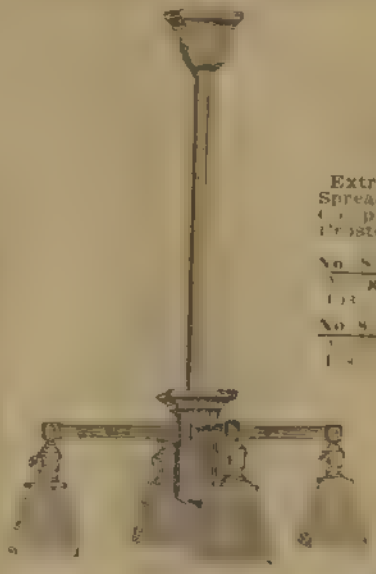
One in a Box.

WE MAKE NO CHARGE FOR PACKING.

ELECTRIC CHANDELIERS.

NO BULBS INCLUDED

Solid Brass, Satin Finish; Wired Throughout; Fitted with New Wrinkle Key Sockets; 2¼ in. Shade Holders



Extreme Length 38 in.; Spread of Arms 17½ in.; Complete with No. 16[illegible]/CRI Frosted Shades

Each

No. S. 1017/2 TWO LIGHT; Weight each about 2[illegible] $10.00

No. S. 1017/4 FOUR LIGHT; Weight each about [illegible] 15.50

Extreme Length 38 in.; Spread of Arms 17½ in.; Complete with No. 1/CRI Frosted Shades with Clear Crystal Stripes

Each

No. S. 1016/2 — TWO LIGHT; Weight each about 15 lbs. $7.50

No. S. 1016/3 — THREE LIGHT; Weight each about 20 lbs. 10.00

No. S. 1016/4 — FOUR LIGHT; Weight each about 28 lbs. 12.50

Extreme Length 38 in.; Spread of Arms 17½ in.; Complete with No. 1/CRI Frosted Shades

Each

No. S. 1018/2—TWO LIGHT; Weight each about 10 lbs. $6.50

No. S. 1018/3—THREE LIGHT; Weight each about 15 lbs. 8.50

No. S. 1018/4 — FOUR LIGHT; Weight each about 28 lbs. 10.50

ELECTRIC SHOWER LIGHTS.

Solid Brass Ceiling Plate and Link Chain Hanger, Satin Finish, Wired Throughout, Fitted with New Wrinkle Key Sockets.

NO BULBS INCLUDED.

FOR LIBRARY OR DINING ROOMS.

Extreme Length 42 in.; Diameter of Ceiling Plate 15¾ in.; 2¼ in. Shade Holders; Complete with No. 460/2 Orange Color Shades.

	Each
No. S 1021 4—FOUR LIGHT; Weight each about 35 lbs.	$15.50
No. S 1021 5—FIVE LIGHT; Weight each about 30 lbs.	18.50

FOR LIVING ROOMS.

Extreme Length 22 in.; Size of Ceiling Plate 14x14 in.; 2¼ in. Shade Holders; Complete with No. 515/CS Frosted Shades with Clear Crystal Stripes.

	Each
No. S 1030 4—FOUR LIGHT. Wgt. each abt. 25 lbs.	$13.50
No. S 1030 5—FIVE LIGHT. Wgt. each abt. 30 lbs.	15.50

Packed Loose.

ELECTRIC SHOWER LIGHTS.

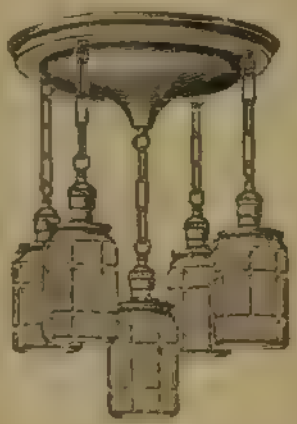
Solid Brass Ceiling Plate and Link Chain Hanger, Satin Finish, Wired Throughout Fitted with New Wrinkle Key Sockets.

NO BULBS INCLUDED.

FOR LIVING ROOMS.

Extreme Length 20 in.; Diameter of Ceiling Plate 14 in.; 2¼ in. Shade Holders, Complete with No. 565/CRI Frosted Shades.

	Each
No. S 1031 4—FOUR LIGHT; Weight each about 25 lbs.	$12.00
No. S 1031 5—FIVE LIGHT; Weight each about 30 lbs.	13.50



FOR LIVING ROOMS

Extreme Length 20 in.; Diameter of Ceiling Plate 14½ in.; 2¼ in. Shade Holders; Complete with No. 525/CS Frosted Shades with Clear Crystal Stripes.

	Each
No. S 1032 4—FOUR LIGHT; Weight each about 25 lbs.	$11.00
No. S 1032 5—FIVE LIGHT. Weight each about 30 lbs.	12.50

FOR BED ROOMS OR RECEPTION HALLS

Extreme Length 12 in.; Diameter of Ceiling Plate 10⅛ in.; 2¼ in. Shade Holders; Complete with No. 620/CS Frosted Shades with Clear Crystal Stripes.

No. S 1005 2—TWO LIGHT. Weight each about 15 lbs.	$6.00
No. S 1005 3—THREE LIGHT. Weight each about 21 lbs.	7.30

Packed Loose.

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

Our shipping facilities are unequaled.

We invite correspondence.

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act.

Door Chimes, Chandelier Chimes, Cathedral Chimes, Dinner Gongs and Wind Bells

Elegant brush brass finish.
Brackets are old oak.
Length where stated is for longest tube.
Finest seamless brass tubes
perfectly tuned.

PRICES EACH.

DOOR CHIME.
Five tubes; length 13½ inches, diameter ⅝ inch.
No. **F310** **$5.80**

DOOR CHIME.
Five tubes, length 15 inches, diameter ⅝ inch.
No **F304** **$4.25**

CHANDELIER CHIME.
Four tubes; length 1' inches diameter ⅝ inch.
No **F300** Each **$3.10**

DOOR CHIME.
Five tubes, length 16 inches, diameter ⅝ inch.
No. **F316** Each..**$9.20**

DOOR CHIME.
Five tubes, length 16 inches, diameter ⅝ inch
No. **F323** Each **$9.85**

CHANDELIER CHIME.
Length 12 inches, diameter ⅝ inch. 4 tubes.
No. **F308** Each..**$4.40**

ZEPHYR WIND BELL.
Length, 12 inches. A decorative arrangement of bells that the breezes can make merry with
No **F10** Each . . . **$1.40**

RESONATING GONGS.
Beautiful tone, mahogany frame, height 9 inches, length 12 inches.
No **F50** Each **$66.65**

CATHEDRAL DINNER CHIME.
Length 25½ inches, diameter ⅜ inch
No **414** Each..... **$10.00**

CATHEDRAL DINNER CHIME
Length 49 inches, 1 diameter ⅝ inch, 4 tubes
No. **439** Each **$36.00**

CATHEDRAL DINNER CHIME.
Four tubes; length 37 inches diameter 1 inch.
No **F490** Each..... **$10.85**

DOOR CHIME.
Four tubes, length 16 inches, diameter 1 inch.
No **F321** Each.... **$8.30**

CATHEDRAL DINNER CHIME.
Eight tubes; length 48 inches, diameter ⅝ inch.
No **F510** Each.....**$37.90**

WOODEN MINNOWS.

DOWAGIAC.

Solid Red Cedar Body, Enameled with Six Coats of Special High Grade Enamel, Giving it a Hard Porcelain Finish, which will not Peel or Cleave from the Bait; Nickel Plated Head and Tail Spinners, with Steel Bead at each end. The Patented Method of Attaching the Hooks makes it impossible for them to interlock, also holds the points of the Hooks outward toward the fish, making the Killing Qualities more certain, also makes it possible to Remove the Hooks and attach others, by giving the Screw Eye a Few Turns to the left.

Fitted with Finest Quality Spear Point Bright Treble Hooks, Size No. 2; Length of Body 3 in.

THREE HOOKS.

	Per Dozen
No. DM100—FANCY	$12.00
No. DM101—RAINBOW	12.00
No. DM102—WHITE	12.00
No. DM104—RED	12.00
No. DM109A—YELLOW PERCH	12.00
No. DM109B—FROG COLOR	12.00

Weight per Dozen about 42 oz.

Fitted with Finest Quality Spear Point Bright Treble Hooks, Size No. 2; Length of Body 2¾ in.

FIVE HOOKS

	Per Dozen
No. DM150—FANCY	$13.60
No. DM151—RAINBOW	13.60
No. DM152—WHITE	13.60
No. DM154—RED	13.60
No. DM159A—YELLOW PERCH	13.60
No. DM159B—FROG COLOR	13.60

THREE HOOKS.

Length of Body 2¾ in.

	Per Dozen
No. DM176—FANCY	$13.60
No. DM176—RAINBOW	13.60
No. DM177—WHITE	13.60

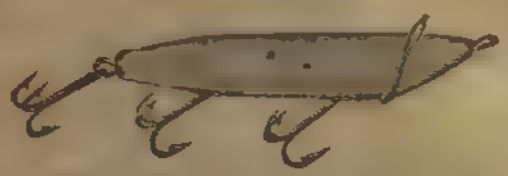
Weight per dozen about 48 oz.

Surface Minnow; Fitted with Finest Quality Spear Point Bright Treble Hooks, Size No. 2; Length of Body 2½ in.

TWO HOOKS.

	Per Dozen
No. DM300—FANCY	$13.60
No. DM301—RAINBOW	13.60
No. DM302—WHITE	13.60

Weight per dozen about 14 oz.



EXPERT SURFACE CASTING MINNOW.

Fitted with Three Finest Quality Spear Point Bright Treble Hooks, Size No. 2; Length of Body 4¼ in.

	Per Dozen
No. DM200 SW—WHITE BODY, BLUE SNOUT, NICKEL PLATED COLOR	$13.60
No. DM200 SF—FROG COLOR	13.60

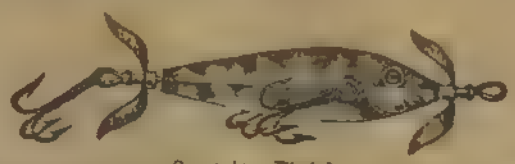
One-twelfth Dozen in a Carton; One Dozen in a Cardboard Box.

WOODEN MINNOWS.

DOWAGIAC.

Solid Red Cedar Body, Enameled with Six Coats of Special High Grade Enamel, giving it a Hard Porcelain Finish which will not Peel or Cleave from the Bait; Nickel Plated Head and Tail Spinners, with Steel Bead at each end. The Patented Method of attaching the Hooks makes it impossible for them to interlock, also holds the points of the Hooks outward toward the fish, making the Killing Qualities more certain, also makes it possible to remove the Hooks and attach others, by giving the Screw Eye a few turns to the left.

New Design, with Five Flat Surfaces, and Side Hooks Mounted on Ridge with Body of Minnow Sloping away from the Hooks, leaving them in the Clearest Possible Position for Efficiency.



Superior Finish.

Fitted with THREE FINEST QUALITY SPEAR POINT BRIGHT TREBLE HOOKS, SIZE NO. 2; Length of Body 3 in.

	Per Dozen
No. DM0—WHITE BODY, RED AND GREEN DECORATIONS	$12.00
No. DM01—YELLOW BODY, RED AND GREEN DECORATIONS	12.00
No. DM02—RED BODY, BLACK DECORATIONS	12.00

Weight per dozen about 42 ozs.

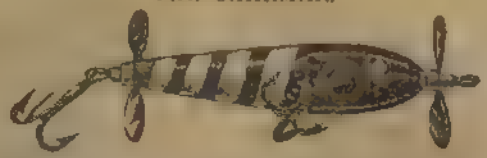
Fitted with FIVE FINEST QUALITY SPEAR POINT BRIGHT TREBLE HOOKS, SIZE NO. 2; Length of Body 2½ in.

	Per Dozen
No. DM00—WHITE BODY, RED AND GREEN DECORATIONS	$13.60
No. DM01—YELLOW BODY, RED, GREEN AND BLACK DECORATIONS	13.60
No. DM02—RED BODY, BLACK DECORATIONS	13.60

Weight per Dozen about 48 ozs.

One-twelfth Dozen in a Carton; One Dozen in a Cardboard Box.

THE CHARMER.



The Charmer Minnow is an Artificial Bait, made of Cedar, and is made in TWO SECTIONS. The Front Section is Stationary, while the Rear Section Revolves on a German Silver Wire Shaft when drawn through the Water. Hooks on Front Section fastened to Spring Wire "Key Ring" Loop and can be Attached and Detached Easily, without taking Minnow apart, Length of Body 3¾ in.

	Per Dozen
No. C/1—ORANGE COLORED HEAD, WITH ORANGE AND GREEN COLORED STRIPES	$13.60
No. C/2—ORANGE COLORED HEAD, WITH ORANGE AND RED COLORED STRIPES	13.60
No. C/3—GREEN COLORED HEAD, WITH GREEN AND WHITE STRIPES	13.60
No. C/4—RED COLORED HEAD, WITH RED AND WHITE STRIPES	13.60
No. C/5—WHITE COLORED HEAD, WITH RED AND WHITE STRIPES	13.60
No. C/6—WHITE COLORED HEAD, WITH GREEN AND WHITE STRIPES	13.60
No. C/7—GOLDEN HEAD, WITH GOLDEN AND CHICKEN STRIPES	13.60
No. C/8—GOLDEN HEAD, WITH GOLDEN AND RED STRIPES	13.60

One-twelfth Dozen in a Carton; Weight per Dozen about 36 ozs.

PADLOCKS.

DOG COLLAR.

Consists of ¼ dozen Patent Spring Locks; 1/12 dozen ⅝ in. Drilled Key Locks, Nickel Plated; 1/12 dozen ⅝ in. Drilled Key Locks, Plain Brass, 1/8 dozen ½ in. Jail Pattern, Nickel Plated; 1/8 dozen Jail Pattern, Plain Brass; 1/12 dozen ½ in. Drilled Key Locks, Plain Brass; 1/12 dozen ½ in. Drilled Key Locks, Nickel Plated; 1/12 dozen Flat Key Locks, Nickel Plated; Mounted on Card 5x6½ in.; 1 KEY TO EACH LOCK, except ¼ dozen Patent Spring Locks.

No. 12—BRASS, NICKEL PLATED..Per Card, $2.50

One Card in a Cardboard Box; Weight per Card about ¼ lb.

Consists of ⅛ dozen ⅝ in. Locks; ⅛ dozen ¾ in. Locks; 1 Drilled Brass Key to each Lock; Spacing of Shackle, Closed, 3/16x⅛ in.; Mounted on Card 6x6¾ in.

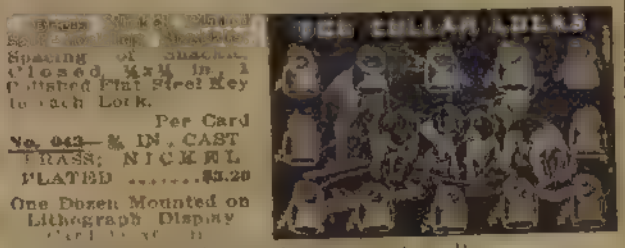
No. 256—CAST BRASS. Per Card $2.20

Consists of 1 dozen Patent Spring Locks; Spacing of Shackle, Closed, ⅜x3/16 in., Mounted on Card 5x5¾ in.

Per Card

No. 180—BRASS, NICKEL PLATED $1.50

One Card in a Cardboard Box; Weight per Card about ¼ lb.



Spacing of Shackle, Closed, ¾x¾ in. 1 Polished Flat Steel Key to each Lock.

Per Card

No. 043—⅝ IN., CAST BRASS; NICKEL PLATED $3.20

One Dozen Mounted on Lithograph Display Card 9½x11 in.

Weight per [illegible] lb.

Self-locking Bronze Shackle; Spacing of Shackle, Closed, 5/16x¾ in.; 1 Solid Bronze Key to each Lock.

No. 8—⅝ IN. CAST BRONZE CASE; Weight per dozen about ½ lb. ..... Per Dozen, $2.20

One Dozen in a Cardboard Box.

WROUGHT BRASS, POLISHED; Self-locking, Steel Spring Shackle; 1 Steel Drilled Bit Key to each Lock. Per Dozen

No. 100D—⅝ IN.; Spacing of Shackle, Closed, 5/16x⅝ in.; Weight per dozen about ½ lb. $2.20

No. 101D—¾ IN.; Spacing of Shackle, Closed, ⅛x¾ in. Weight per dozen about ½ lb. 2.20

No. 102D—1 IN.; Spacing of Shackle, Closed, 5/16x1 in. Weight per dozen about ¾ lb. 3.80

No. 104D—1¼ IN.; Spacing of Shackle, Closed, ⅜x1¼ in.. Weight per dozen about 1 lb. 5.00

One Dozen in a Cardboard Box.

COMPARATIVE LIST OF CABINET LOCKS IN NUMERICAL ORDER

S. H. Co. and Eagle Lock Co.	Yale & Towne Mfg. Co.	Corbin Cabinet Lock Co.	Catalogue Page.
9	S/86	85	517
12	[illegible]	[illegible]	518
34	S/25	4	516
22	SA25	04	518
36	PA162	0622	513
43	SA22	02	516
50	S 34	13	517
57	P2	202	516
60	RA464	0624	513
64	S 2	32	517
65	S 30	0	517
71	P462	622	513
72/3B	R166 K	628/3K	513
72	P466	620	513
82	S	38	517
83	10	40	517
98	R467	627	513
116	P5	205	516
136	R469	624	513
139	S 28	3	516
141C	S 29	3	517
144	P34	0204	516
148	W36	727	514
151	WA45	0724	514
158	W44	723	514
160	S 8	36	516
161	P474	634	513
163	S 6	35	517
165	SA6	035	517
166	S 4	34	517
167	S 3	33	517
168	S 7	37	517
169	SA34	035	517
173	W34	734	514
174	W37	712	514
180	P435	6 5	513
181	SA1	070	516
183	S 8	73	517
237	R 68	407	513
310	P4	413	513
389	P32	412	513
408	S 120	109	517
410	S 127	106	517
411	SA117	0 06	517
417½	W14	702B	514
416	W37	0702	514
417	W5	736	514
418	W45	0732	514
420	W 8	711	514
421	R465	625	513
427	S 114	104	517
454	R10	462	513
455	RA101	0463	513
483	S 111	101	517
474	P423	311	516
504¾	W1[illegible]	709B	514
[illegible]	W9	744	514
508	WA1	0763	514
[illegible]	W1	709	514
[illegible]	W-	764	514
533	P23	0172	516
537	533	0767	515
541	541	0173¾	515
561			512
16[illegible] S	563/S	0886½	512
910[illegible]			516
945		1194½	516
951	[illegible]G	[illegible]10	513
963	963	041	513
966	66	0611¾	5[illegible]
1[illegible]2			516
1[illegible]7	R[illegible]9	62[illegible]	516
1[illegible]0	[illegible]0	6[illegible]M	516
01[illegible]6	RA[illegible]0	0[illegible]½	513
01[illegible]8	RA[illegible]0	064	513
1[illegible]¼	W[illegible]4	70[illegible]B	514
1[illegible]5			517
0[illegible]1	R[illegible]375	0675	512
[illegible]1	[illegible]P21	[illegible]½	513
[illegible]1½	RA[illegible]0	0[illegible]½	513
19[illegible]			513
[illegible]2	SA168	07[illegible]	516
1[illegible]7	[illegible]S	88	517
1[illegible]4C	R[illegible]8	47½/C	516
[illegible]1			516
[illegible]1[illegible]	W24	717	514
0212[illegible]½	SA[illegible]2	0147P	516
[illegible]61	[illegible]39	610½	513
[illegible]11½	SA102	0161P	513
02161	RA[illegible]59	0659½	513
0[illegible]71	5[illegible]8	[illegible]	513
[illegible]3	[illegible]12	0370B	516
[illegible]8	[illegible]3	0667	513
[illegible]/S	5[illegible]8		513
[illegible]1	RA[illegible]1	0661	513
6001½	RA[illegible]0	0601½	513
6017	[illegible]10	[illegible]0	517
[illegible]8	RA210	0600	513
[illegible]3	SA106	0145	516
[illegible]7½	SA164	0144P	516
[illegible]0	[illegible]	[illegible]	513
[illegible]0P			513
[illegible]8	SA151	0141	516
[illegible]0	[illegible]	[illegible]	513
[illegible]1P			513
[illegible]8	WA102	0750	513
[illegible]4	W102	751	513
[illegible]3			513

DRAWER LOCKS.

CYLINDER.

Cabinet Locks have 12 Keys to the Dozen, unless otherwise stated. Where the term 3-Keyed is used, it means that there are only Three Keys for the Entire Dozen; where there is more than one Key to each Lock it is so stated.

YALE—1 IN. DROP

ALL BRASS; Solid Box, Screwed; Heavy Cast Brass Spring Bolt; 9/16 in. Square Selvedge; Diameter of Cylinder 1¼ in., for 1 in. Wood, ½x¾ in. Lipped Strike Plate; 2 German Silver Paracentric Keys No. 9 to each Lock. Changes Unlimited

No. 563 S—2¼x1⅞ in.; Weight per doz. abt 4¼ lbs....Per Dozen, $29.00

YALE—⅞ IN. DROP.

ALL BRASS Open Box, Screwed; Heavy Cast Brass Spring Bolt; ⅞ in Square Selvedge. Diameter of Cylinder ¾ in., for ⅞ in. Wood; ½x½ in. Lipped Strike Plate; 2 German Silver Paracentric Keys No. 10 to each Lock. Changes Unlimited

No. 5553/8—2x1⅛ in; Weight per dozen about 3 lbs.....Per Dozen, $25.50

YALE—1 IN. DROP.

ALL BRASS; Open Box, Screwed, Broad Heavy Bolt; 9/16 in. Square Selvedge; Diameter of Cylinder 1¼ in., for ⅞ in. Wood; 2 German Silver Paracentric Keys No. 9 to each Lock. Changes Unlimited.

No. 561—2¼x1⅞ in.; Weight per doz. about 4¼ lbs....Per Dozen, $24.50

YALE—⅞ IN. DROP

ALL BRASS Open Box, Screwed; Heavy Broad Bolt, ⅞ in Square Selvedge, Diameter of Cylinder ¾ in., for ⅞ in Wood 2 German Silver Keys No. 10, Changes Unlimited.

No. 5553—2x1⅛ in.; Weight per doz. about 3 lbs.....Per Dozen, $20.50

One-twelfth Dozen in a Cardboard Box; One Dozen in a Carton.

Paracentric Keys for above Locks Cannot be Duplicated by Number. One of the Originals must be returned or if all lost, the Lock itself must be returned.

CYLINDER—⅞ IN. DROP.

ALL BRASS, Solid Box Screwed, Cast Brass Spring Bolt; Pin Tumblers; Cylinder ⅞ in. in Diameter for ⅞ in. Wood; ⅛ in. Square Selvedge; 2x1⅛ in. Beveled Lipped Brass Strike Plate; 2 German Silver Keys; CHANGES UNLIMITED.

Per Dozen

No. 03271—2x1⅛ in.; Weight per dozen about 3 lbs.....$24.00

One-twelfth Dozen in a Cardboard Box, Complete with Screws

‡NOTE—No. 03271 can be Master Keyed to any Desired Number at an Additional Cost of $9.00 per Dozen List. Extra Master Keys $1.00 each List.

CYLINDER—⅞ IN. DROP.

Three Secure Brass Levers; Diameter of Nose ⅝ in., for ⅞ in Wood, ⅛ in. Square Selvedge; 2 Nickel Plated Flat Steel Keys to each Lock, 12 Changes.

Per Dozen

No. 6017—2⅛x1⅜ in.: ALL IRON; Solid Box, Screwed; Heavy Bolt.....$6.50 $11.40

No. 6018—2¼x1⅜ in. BRASS PLATE; Solid Iron Box, Screwed Broad Heavy Iron Bolt..... 7.00 12.20

No. 6001—2⅛x1⅜ in.; ALL BRASS; Solid Box, Screwed; Heavy Bolt..... 7.50 13.00

One Dozen in a Cardboard Box.
Weight per Dozen about 2½ lbs.

DRAWER LOCKS.

CYLINDER.

FOR POST OFFICES—⅝ IN. DROP.

Open Box, Riveted; 4 Secure Levers; Diameter of Nose ⅝ in., for ⅝ in. Wood ⅜ in Square Selvedge; 2 Flat Steel Keys to each Lock.

Per Dozen

No. 6080P—1⅝x1⅛ in; ALL BRASS; 720 Changes..$10.00

No. 6090P—1⅝x1⅛ in; ALL IRON. 720 Changes.... 8.00

No. 6080—1⅝x1⅛ in.; ALL BRASS; 12 Changes... 6.90

No. 6090—1⅝x1⅛ in.; ALL IRON; 12 Changes..... 3.50

Weight per Dozen about 1½ lbs.

⅞ IN. DROP.

Open Box; Solid Cast Brass Tumblers; Heavy Broad Brass Bolt; ⅞ in. Square Selvedge, Diameter of Nose 9/16 inch, for ⅞ in. Wood, 2 Flat Steel Keys to each Lock. 120 Changes.

No. 01261—2x1⅝ in WITH BRASS PLATE; Weight per dozen abt. 2½ lbs....Per Dozen, $9.00

⅞ IN. DROP.

Open Box, Riveted 2 Secure Levers, Broad Bolt; Diameter of Nose ⅝ in. for ⅞ in. Wood, 7/16 in. Square Selvedge, 2 Flat Steel Keys to each Lock, 12 Changes

Per Dozen

No. 01816—2x1 13/16 IN.; ALL BRASS; Weight per dozen about 2 lbs.....$7.80

1⅛ IN. DROP.

Reversed Plate; Solid Box, Riveted; 2 Secure Levers; Diameter of Nose ½ in., for 1 in. Wood; 1¼x5/16 in. Flat Brass Strike Plate; 2 Flat Steel Keys to each Lock, 12 Changes.

Per Dozen

No. 01848—1⅝x1⅛ in.; ALL BRASS Weight per doz. about 3 lbs....$6.40

This Lock applies directly to the surface of the Wood Without Mortising;

One Dozen in a Cardboard Box.

⅞ IN. DROP

Solid Box Riveted; 2 Secure Levers; Diameter of Nose ⅛ in.; Flat Strike Plate 1⅝x⅜ in., 2 Flat Steel Nickel Plated Keys; 12 CHANGES.

Per Dozen

No. 2161—1⅝x1⅛ in.; ALL IRON; Iron Bolt, WITH CYLINDER, FOR ⅛ IN WOOD.....$3.10

No. 2161½—1⅝x1⅛ in.; ALL IRON; Iron Bolt, WITH CYLINDER FOR ⅛ IN. WOOD..... 4.10

No. 02161—1⅝x1⅛ in.; ALL BRASS; Brass Bolt, WITH CYLINDER, FOR ⅛ IN. WOOD..... 6.40

One Dozen in a Cardboard Box, Complete with Screws. Weight per Dozen about 2 lbs.

‡NOTE—Nos. 2161 and 02161 can be Furnished with 15625 Key Changes and 3125 Changes with Master Key at an Additional Cost of $4.50 per Dozen List. Extra Master Keys $1.10 each List.

CYLINDER—⅞ IN. DROP.

Solid Box, Screwed; Heavy Cast Brass Spring Bolt; 3 Secure Levers, Diameter of Nose ⅝ in., for ⅞ in. Wood, ½ in Square Selvedge; 2¼x11/16 in. Lipped Brass Strike Plate; 2 Flat Steel Keys to each Lock, 12 Changes.

Per Dozen

No. 6001½—2⅛x1⅜ in.; ALL BRASS. Weight per dozen about 3½ lbs....$9.00 $15.40

⅞ IN. DROP.

Open Box, Screwed; 2 Secure Levers; Spring Bolt and Lipped Strike; Diameter of Nose ½ in., for ⅞ in. Wood, ⅛ in. Square Selvedge; 2 Nickel Plated Flat Steel Keys to each Lock, 12 Changes.

No. 906—2x1⅝ in.; Yale Standard, ALL BRASS; Weight per dozen about 2½ lbs.....Per Dozen, $11.50

One Dozen in a Cardboard Box.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

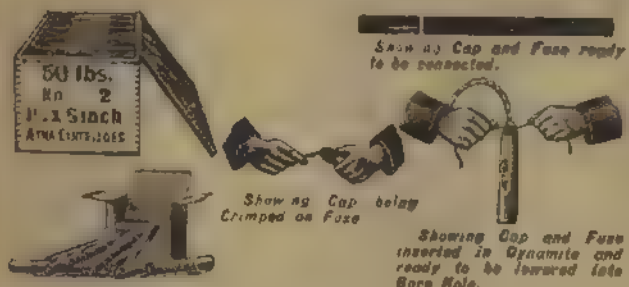
‡DYNAMITE.

The Prices Shown Below are Manufacturers' Lists. Write us for Market Prices.

‡AETNA POWDER CO.'S.

Aetna Dynamite is put up in strong Paper Shells or Cartridges which, previous to filling, are dipped in Metal Paraffine. The smaller sizes, having a diameter of 1¼ in. and under, are packed in pasteboard boxes, containing 10 lbs. each. Five of these boxes are enclosed in a strong wood case, which can be as conveniently handled and shipped as any other merchandise. The larger sizes, 1⅓ in. and over, are packed loose same as Aetna Gelatin.

We can also furnish Aetna Dynamite in 25 lb. cases; 2 paper boxes in a wood case containing 12½ lbs. each.



Showing Cap and Fuse ready to be connected.

Showing Cap being Crimped on Fuse

Showing Cap and Fuse inserted in Dynamite and ready to be lowered into Bore Hole.

For Clay, Shelly Rock, Frozen Earth and Light Work, and in Quarries when Rock is to be Split, but not Shattered

		Per Pound
‡No. 4	—20% Nitro-glycerin	$0.22
‡No. 4X	—25% Nitro-glycerin	.23
‡No. 5	—27½% Nitro-glycerin	.25½

For Moderately Hard Rock, Copper, Lead and other Ores, Stumps and Ice

		Per Pound
‡No. 1X	—30% Nitro-glycerin	$0.24
‡No. 1C	—33% Nitro-glycerin	.24½
‡No. 1B	—35% Nitro-glycerin	.25
‡No. 1	40% Nitro-glycerin	.26

Manufactured Specially for Competitive Purposes

For Hard Rock, Ores and Iron

		Per Pound
‡No. 2X	—45% Nitro-glycerin	$0.27½
‡No. 2½X	—50% Nitro-glycerin	.28

For Extremely Hard Rock, Ores, Breaking Iron and Steel, and Submarine Blasting.

		Per Pound
‡No. A1	—60% Nitro-glycerin	$0.33

AETNA LOW FREEZING DYNAMITE.

Less Susceptible to Cold Weather, Freezes at much Lower Temperature than Regular Dynamite; Will not Freeze at a Temperature above 32 Degrees Fahrenheit; Contains same Explosive Force as Ordinary Dynamite. Strength for Strength therefore more Desirable for use in all Kinds of Weather.

		Per Pound
‡No. 4XLF	—35% Strength	$0.25
‡No. 3XLF	—30% Strength	25½
‡No. 2LF	—33% Strength	26
‡No. 6LF	—35% Strength	25½
‡No. 1LF	—40% Strength	27
‡No. 2XLF	—45% Strength	28
‡No. 3XXLF	50% Strength	29
‡No. 1LF	—60% Strength	30

SOLD ONLY IN FULL CASES

‡Size Cartridges most commonly used are ⅞x8 in.; Weight ½ lb., and 1¼x8 in.; Weight ½ lb.

‡We can furnish any other Size or Weight with very little delay.

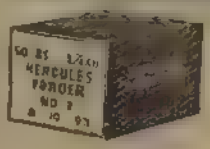
We Positively Cannot Ship Dynamite with Hardware or other Goods.

In all cases where Dynamite is entered on order with Hardware, we will ship it direct from nearest magazine.

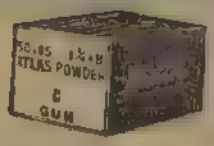
This class of goods can only be shipped by rail. We cannot accept any offers to be forwarded by Passenger Steamer. Steamers having magazines will accept Black Powder for shipment, but it is unlawful for them to carry high explosives, such as Dynamite, etc.

‡DUPONT DYNAMITE

The Prices Shown Below are Manufacturers' Lists. Write us for Market Prices.



‡Hercules.



‡Atlas.

Showing Method of Preparing a Cartridge.

Hercules and Atlas Powder is packed in paper Cartridges of a Double Thickness, Protected by a Coating of Paraffine. The standard size of Cartridges is 1¼ in. Diameter by 8 in. long but for special conditions Cartridges of any convenient size are manufactured.

These Cartridges are put up Regularly in Wooden Cases holding 50 lbs. When so desired by customers, a special packing is furnished by which five cartons, thoroughly protected with paraffine, each holding 10 lbs., are enclosed in a Wooden Case, or Half Cases, containing 25 lbs. each.

Can furnish Dynamite (all numbers) in Sticks as per following Weights and Measurements at regular price.

Size of Stick, in.	⅞x8	1x8	1¼x8	1½x8	1¾x8	2x8
Weight per Stick, oz.	4½	5¾	6¾	8	12½	16	20

(Standard Size.)

‡HERCULES DYNAMITE.

Nitro-glycerin

		Per Pound
‡No. 1	—60%	$0.32
‡No. 1 SS	—50%	.29
‡No. 1 S	—45%	27½
‡No. 1	—40%	26
‡No. 1/C	—37½%	.25
‡No. 1C	35%	25½
‡No. 1B	—30%	25
‡No. 2B	—35%	25½
‡No. 3	—30%	.24½

‡ATLAS DYNAMITE.

Nitro-glycerin

		Per Pound
‡No. B	—60%	$0.32
‡No. B	—50	29
‡No. C	—45%	27½
‡No. C	—40%	26
‡No. D	—33%	.25
‡No. E	—27½%	23½
‡No. E	—25%	.22
‡No. K	—35%	.25½

‡HERCULES AND ATLAS GELATINE

Hercules and Atlas Gelatine is an Explosive of Great Strength, having general characteristics similar to Hercules and Atlas Powder, to which it corresponds in effectiveness, grade for grade.

The Special Quality of Hercules and Atlas Gelatine by which it differs from all ordinary Dynamite is an entire FREEDOM FROM OBJECTIONABLE FUMES ON EXPLOSION. This quality makes its use a necessity in all close work, such as Tunnels, Shafts and Mines, where the ventilation is not perfect.

Extra Strong Caps should be used (Nothing weaker than a Quintuple Force) as it is somewhat harder to explode than Nitro-glycerin Dynamite.

It is put up for shipment in packages similar to those used for Hercules and Atlas Powder.

‡HERCULES GELATINE.

		Per Pound
‡No. GEL—1	—60%	$0.32
‡No. GEL—1 SS	—50%	.29
‡No. GEL 1 S	45%	27½
‡No. GEL 1	—40	26

‡ATLAS GELATINE

		Per Pound
‡No. GEL—B	—60%	$0.32
‡No. GEL—B	—50%	.29
‡No. GEL—C	—45	27½
‡No. GEL—C	40%	26

‡RED CROSS LOW FREEZING AMMONIA DYNAMITE

WILL NOT FREEZE UNTIL WATER FREEZES. WILL THAW WHEN ICE MELTS

Less Sensitive, therefore Safer to Handle than Nitro-glycerin Dynamite thus requiring a Stronger Cap to properly explode, such as DuPont No. 6. It has the same disruptive force as Nitro-glycerin Dynamite.

		Per Pound
‡No. Triple Extra	—50 Strength	$0.30
‡No. Double Extra	—50 Strength	29
‡No. Extra X	45% Strength	28
‡No. Extra	40% Strength	27
‡No. 1F	35% Strength	26½
‡No. FFFF	33% Strength	26
‡No. SP½	30 Strength	25½
‡No. SP	—25% Strength	25

Packed in 25 to 50 lb. Cases

We Positively Can not Ship Dynamite with Hardware or other Goods.

In all cases where Dynamite is entered on order with Hardware, we will ship it direct from nearest magazine.

This class of goods can only be shipped by rail. Do not order to be forwarded by Passenger Steamer. Steamers having magazines will accept Black Powder for shipment, but it is unlawful for them to carry high explosives, such as Dynamite etc.

Upon application we will send, free of charge, full instructions and interesting information upon the handling and use of Dynamite.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

SMOKELESS POWDER.

[redacted]

LAFLIN & RAND.

"INFALLIBLE" SMOKELESS POWDER.

This Powder is made for use in Shotguns of all Gauges, and with High Velocity is guaranteed to give Better Patterns than any other powder on the market. High Velocities may be obtained with many Powders, but the Patterns are often Patchy. This is not the case with Infallible Smokeless.

To Sportsmen living in Damp Localities, we desire again to mention the fact that this Powder IS NOT AFFECTED BY HEAT OR COLD, DAMPNESS OR DAMPNESS.

Each

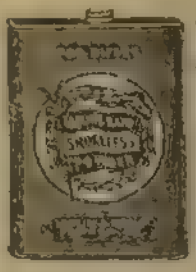
No. 1 C—CANISTERS; Actual Weight of Powder 1 oz 250 Grains $1.00

No. 1 10—10-CAN DRUMS, Actual Weight of Powder 2 lbs. 14 oz., 275 Grains..... 9.00

No. 1 25—25-CAN DRUMS; Actual Weight of Powder 7 lbs 4 oz., 250 Grains..... 22.00

No. 1 50—50-CAN DRUMS; Actual Weight of Powder 14 lbs 9 oz, 65 Grains..... 43.50

Original Cases Contain. 25 canisters, Weight per Case 17 lbs., 5-10 Cans, Weight per Case 37 lbs., 25-can Drums, Not Crated, Weight Each 10 lbs., 50-can Drums, not Crated, Weight Each 18 lbs.



"LIGHTNING" SMOKELESS POWDER

No. L—CANISTERS Containing 1 6 ozs. Avoirdupois.....Each, $1 25

25 Canisters in a Case; Weight per Case about 37 lbs.

Lightning Smokeless Powder is adapted to Rifles mentioned below. This Powder will not give accurate results in any of the 30-40 Rifles.

Charges named are full service and to be used with metal cased bullets

CHARGES.

Rifles	Grains Weight.	Drs. Measure.
7 m-m.	27	1 ⅛
303 Savage	[illegible]	[illegible]
30-30 Winchester	23	1 ⅛
30 U. S. Martin	[illegible]	1 ⅛
25-35	19	1 5/16
25-36	19	1 5/16
303 British	28	1 5/16

"[illegible]" 30 CALIBER" SMOKELESS POWDER

No. W [illegible]—CANISTERS Containing 16 ozs Avoirdupois, [illegible] $1 25

25 Canisters in a Case; Weight per Case about 37 lbs

This Powder is adapted for use in High Power Rifles, service charges only, and it is nearer perfection than any other Powder that has ever been put on the market.

For Long Range Shooting in the High Power Rifles it has no equal, and is intended for the following rifles

CHARGES

Rifles.	Grains Weight.	Drs. Measure.
30 Cal. U. S. Gov't	34	1 ½
30-40 Winchester	34	1 ½
30-40 Remington	34	1 ½

SMOKELESS POWDER.

[redacted]

"BULLSEYE" SMOKELESS FOR REVOLVERS

No. BK—SINGLE CANISTERS. Containing 8 ozs. Avoirdupois...Each. $1 00

25 Canisters in Case, Weight per Case about 24 lbs.

The Latest and Best. No Residue, no Smoke and but Slight Report.

CHARGES

Revolvers.	Grains Weight	Drs Measure
32 S. & W. Revolver	2	⅛
32 Long Colt.	2	⅛
38 Long Colt.	3	3/16
38 S. & W. Military	3	3/16
44 S. & W. Russian	4	¼
44 Colt	4	¼
45 Colt	4	¼

DUPONT'S SMOKELESS POWDER.

No. DC—CANISTERS (Equal in Bulk to 1 lb. of Black Powder), Actual Weight of Powder 7.5 ozs. $1 00

No. DQK—QUARTER-KEGS (Equal in Bulk to 6¼ lbs of Black Powder); Actual Weight of Powder 2.9 lbs 5.75

No. DHK—HALF-KEGS (Equal in Bulk to 12½ lbs. of Black Powder); Actual Wgt. of Powder 5.8 lbs.. $1 25

No. DK—KEGS (Equal in Bulk to 25 lbs of Black Powder); Actual Weight of Powder 11.6 lbs..... 22.00

No. D50—50 LB. (Bulk) Drums; Actual Weight of Powder 23 2 lbs..... 43 50

DUPONT'S SMOKELESS POWDER FOR RIFLES.

No. D1—CANISTERS (Equal in Bulk to 1 lb of Black Powder); Actual Weight of Powder 7.5 ozs.....$1 00

No. D2—CANISTERS (Equal in Bulk to 1 lb of Black Powder); Actual Weight of Powder 7.5 ozs..... 1.00

No. D30—30-CALIBER RIFLE. CANISTERS (Equal in Bulk to 1 lb. of Black Powder); Actual Weight of Powder 7.5 ozs.. ... ... 1 25

No 1 is intended for use in the following Rifle Cartridges: 45-90-300, 45-70-405, 40-60-210, 40-70-330, 38-55-255, 32-40-165, 32-20 W. C. F., 25-20 W. C. F.

No. 2 is intended for use in 44-40 W. C. F., 38-40 W. C. F., and all Pistol and Revolver Cartridges.

No. 30 Caliber Rifle Powder is intended for use in Rifle Cartridges, 30 Caliber Govt., 30-30 Winchester and 30-30 Marlin.

HAZARD SMOKELESS POWDER

BLUE RIBBON BRAND.

No. HC—CANISTERS (Equal in Bulk to 1 lb. of Black Powder); Actual Weight of Powder 7.5 ozs.....$1 00

No. HQK—QUARTER KEGS (Equal in Bulk to 6¼ lbs of Black Powder), Actual Weight of Powder 2.9 lbs. 5.75

No. HHK—HALF KEGS (Equal in Bulk to 12½ lbs. of Black Powder); Actual Weight of Powder 5.8 lbs. 11.25

No. HK—KEGS (Equal in Bulk to 25 lbs. of Black Powder); Actual Weight of Powder 11.6 lbs..... 22.00

Quick Ignition, Even Pattern, Great Penetration.

Canisters Packed 25 in a Case; Weight per Case about 27 lbs., Quarter Kegs, not Crated, Weight 4 lbs.; Half Kegs, not Crated, Weight 7 lbs; Kegs, not Crated, Weight 14¼ lbs.; 50 lb. Drums, not Crated, Weight 29½ lbs.

‡HOSE RACKS.

Showing Pipe Clamps.

HUMP SWINGING HOSE RACK.

There are twenty-five breaks or folds in a fifty ft. length of hose. On a straight flat bottom these breaks are sharp, on a bottom that is higher in the center than at the ends, the weight is taken off the ends, and these breaks become easy folds, and therefore the hose will not break at folds when run off. The end, or front of the rack is partially enclosed in order that at least five folds of hose must be drawn off, preventing hose from falling in a tangled mass. The Hump Racks are attached to wall brackets or pipe clamps, at the top and bottom.

No extra charge for pipe clamps up to and including 4 in.

UNLINED LINEN.

No.	Capacity, Ft.	Size Hose, In.	Height, In.	Length, In.	Each
A0	50	1½ or 1½	11	22	$ 6.70
A0X	50	2	11	22	6.70
A00	50	2½	11	22	6.70
A1	100	1¼ or 1½	18	24	8.00
A1X	100	2	18	24	8.00
A2	100	2½	18	24	8.00
A3	150	1¼ or 1½	23	28	9.40
A3X	150	2	23	28	9.40
A4	150	2½	23	28	9.40
A5	200	1¼ or 1½	34	32	10.80

The A0, A0X and A00 will be furnished to hold 75 ft. of hose, adding [illegible] to list price. Size 14x22 in.

JAPANNED RED

WE CAN SUPPLY ANY OF THE ABOVE SIZES IN GOLD OR ALUMINUM BRONZE AT THE SAME PRICES; FINISHED IN NICKEL OR COPPER PLATE AT SPECIAL PRICE

When ordering racks with pipe clamps, be sure to give size of pipe they are to fit. If not standard size pipe, you must give the outside diameter

Crated

‡WIRT'S SWINGING WALL REEL.

Made of steel tubing, steel rod and wire, and machine castings. Positively the Strongest and most Durable Reel made.

IMPORTANT—*Tension axles are used so that the reel may be adjusted to run tight or loose, as desired.*

Strong, serviceable and ornamental. Takes up less space and presents less surface for the accumulation of dust than any other made.

Will swing to any angle from the wall

Hose will unwind without a knot or twist.

This is the only swinging wall reel made for 150 feet of cotton rubber lined hose.

Special sizes made to order. Furnished with wall brackets or pipe clamps, as desired. No extra charge for pipe clamps up to and including 4 in

VERMILION

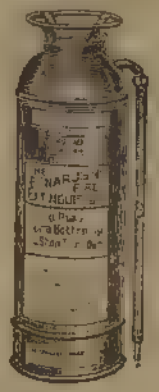
No.	Capac. ity, ft	Size Hose, in.	Description of Hose	Width, in.	Dia. in.	Each
0	50	1¼ or 1½	Unlined Linen One Tier	3	15	$ 7.20
00	50	2	Unlined Linen One Tier	3⅜	15	7.20
000	50	2½	Unlined Linen One Tier	4⅝	15	7.20
[illegible]	75	1¼ or 1½	Unlined Linen One Tier	3⅜	17	7.20
00[illegible]	75	2	Unlined Linen One Tier	4¼	17	7.20
000[illegible]	75	2½	Unlined Linen One Tier	4⅝	17	7.20
[illegible]	[illegible]	1¼ or 1½	Unlined Linen One Tier	3⅜	21	7.20
2½	100	2	Unlined Linen One Tier	4¼	21	7.20
3½	100	2½	Unlined Linen One Tier	4⅝	21	7.20
2	150	1¼ or 1½	Unlined Linen One Tier	3⅜	28	7.20
3	150	2	Unlined Linen One Tier	4¼	28	7.20
4	150	2½	Unlined Linen One Tier	4⅝	28	7.20
5½	100	1¼ or 1½	Unlined Linen Two Tier	5½	21	8.40
5½	200	2	Unlined Linen Two Tier	8	21	9.60
7½	200	2½	Unlined Linen Two Tier	9	21	9.60
7	300	2½	Unlined Linen Two Tier	9	28	10.20
9	300	2½	Unlined Linen Two Tier	9	32	13.80
			(One Tier)			
2	50	1¼ or 1½	Cotton Rubber Lined Mill	3⅜	26	7.20
3	50	2	Cotton Rubber Lined Mill	4¼	26	7.20
4	50	2½	Cotton Rubber Lined Mill	4⅝	26	7.80
5	100	1¼ or 1½	Cotton Rubber Lined Mill	5½	26	9.00
			(Two Tier)			
6	100	2	Cotton Rubber Lined Mill	8	26	9.00
7	100	2½	Cotton Rubber Lined Mill	9	28	10.20
9	150	2½	Cotton Rubber Lined Mill	9	32	13.80

Crated.

FIRE EXTINGUISHERS.

THE ECNARUSNI.

(Insurance Reversed.)



APPROVED BY ALL STATE HOTEL INSPECTORS.

Approved and Accepted by the National Board of Fire Underwriters and Tested under their Supervision.

Adopted and used by the U. S. Government.

The Shell is constructed of Heavy Cold Rolled Copper and tested by Hydrostatic Pressure to 350 lbs. to the Square Inch. Double Beaded Joints, Bottom Leaded and Reinforced by a Special Sweating Process

Interior is Lined with Lead to Prevent Disintegration of the Copper by Chemical Action

All Castings are of Hard Red Brass

Large Rail is attached to the Cover to better Facilitate Opening and Closing the Extinguisher

The Cage is made Extra Strong and arranged for the ready removal and replacement of the Acid Bottle.

The Bottle is of commercial form and size and in the event of breakage can readily be duplicated by any local druggist

Goose Neck Sweated and Beaded into Shoulders on the Dome, making them practically One Piece of Metal.

Hose is Detachable and of the Best Quality, and will withstand a Pressure of 100 lbs. Has a Perforated Copper Strainer over the outlet to prevent any foreign matter in the water clogging Hose, or stopping the flow of the Chemicals.

Ferrules are made of Pure Brass and Crimped on the Hose.

Nozzle is made of Lead and Will Not Corrode; The Automatic Lead Stopper used on the Acid Bottle is the most important feature ever introduced into Portable Extinguishers and is not only as a protection to the Acid, but as a Feeder and Distributor as well

The Chemicals used are the same as in any other Extinguisher and can readily be procured at any local druggist. The charge is as follows: 1½ lbs Bi Carbonate of Soda and 4 oz of Sulphuric Acid. Mix the Bi Carbonate of Soda with 2½ Gallons of Water. Place the Acid Bottle in the Cage designed for it. Screw on the Top and Extinguisher is ready.

When Extinguisher is Turned Bottom up, the Lead Stopper Drops from Mouth of Bottle and Acid is Automatically Fed into the Soda Solution, equalizing the pressure generated, rendering EXPLOSIVE ACTION IMPOSSIBLE, and Playing a Stream a Distance of 50 ft. until empty.

It Stops Playing when Turned Back, but starts Playing again when Turned Bottom up, whether used at once or after long standing.

Acid is Completely Neutralized, preventing the burning of person, clothing, or goods with raw acid.

Gas is created only as needed and as long as needed, carrying the stream evenly and with full extinguishing power from first to last

Possesses many times the Extinguishing Power of Water and INSTANTLY QUENCHES BURNING TAR VARNISH, NAPHTHA PETROLEUM, OILS, ETC.

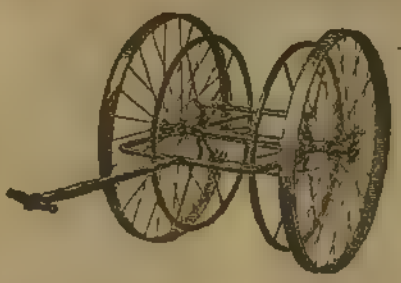
	Each
No. E—COMPLETE WITH HANGER AND CHARGE. CAPACITY 3 GALLONS; Maximum Pressure 115 lbs., Duration of Stream 2 Minutes, Height 21¾ in.; Diameter 7 in.; Weight, when Empty, 17½ lbs.; Weight, Charged and Ready for Use, 38 lbs.	**$15.00**

One in a Carton.

DIRECTION FOR OPERATING AND CHARGING are in Large Letters on a Brass Label permanently attached to it.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡ HOSE REELS.



Tubular Steel Reel, Frame and Tongue; Steel Wheels with 2 in. Tires.

Nos.	‡30	‡100	‡110
Height of Wheels, in.	34	36	38
Extreme Outside Width, in.	31	33	38
Weight each, lbs.	85	90	95
Capacity ¾ in. 3-ply Rubber Hose	500	600	800
Capacity 1 in. 4-ply Rubber Hose	200	300	400
Capacity 1¼ in. 4-ply Rubber Hose	150	200	300
Capacity 1½ in. 4-ply Rubber Hose	100	150	200
Capacity 1¼ in. Cotton Rubber Lined Hose	300	400	500
Capacity 1½ in. Cotton Rubber Lined Hose	200	300	400
Capacity 2 in. Cotton Rubber Lined Hose	150	200	250
Capacity 2½ in. Cotton Rubber Lined Hose	100	150	200
Each	$14.40	20.40	30.00

FOR RAILROADS, MILLS, FACTORIES AND WAREHOUSES

Tubular Iron Frame and Steel Wheels. Very Strong. Neatly finished in Vermilion and Black. Special Sizes to Order.

Nos.	‡101	‡102	‡103
Height of Wheels, in.	42	48	52
Extreme Outside Width, in.	42	48	54
Weight each, lbs.	140	190	250
Capacity 1½ in. 4-ply Rubber Hose	300	400	600
Capacity 2 in. 4-ply Rubber Hose	200	300	400
Capacity 2½ in. 4-ply Rubber Hose	150	250	300
Capacity 1½ in. Cotton Rubber Lined Hose	500	650	800
Capacity 2 in. Cotton Rubber Lined Hose	350	500	600
Capacity 2½ in. Cotton Rubber Lined Hose	250	400	500
Each	$42.00	54.00	66.00

HOSE CLAMPS.

SHERMAN.

Rolled from Sheet Brass, Natural Finish; Fitted with Steel Round Head Bolt and Nut.

Nos.	73	74	75	76	77	78	79
For Hose, in.	½	⅝	¾	1	1¼	1½	2
Dozen in Cardboard Box.	12	12	12	6	4	3	2
Wgt. per doz. abt., lbs.	¾	⅞	1	1½	1¾	2⅛	
Per dozen	$0.90	.90	.90	1.90	2.40	2.90	4.50

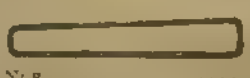
One Gross in a Cardboard Box

SHERMAN DOUBLE

Rolled from Sheet Brass, Natural Finish; Fitted with Steel Round Head Bolt and Nut.

Nos.	73D	75D
For Hose, in.	½	¾
Wgt. per doz. abt., lbs.	¾	1
Per dozen	$1.20	1.20

Six Dozen in a Cardboard Box.



16 Gauge Brass Wire; Brazed at Joint; Average Width ⅝ in.

Nos.	1	0	00
For Hose, in.	½	⅝	1
Length, in.	4½	4½	5
Weight per dozen about, ozs.	3	3	5
Per dozen	$0.26	.26	.42

Twelve Dozen in a Cardboard Box.

HOSE COUPLINGS.

WROUGHT BRASS TUBE AND CLINCHING PRONGS.

Nos.	24	25
For Hose, inches	½	⅝
Weight per dozen about, lbs.	2	2⅛
Per dozen	$4.30	4.30

One Dozen in a Cardboard Box.

SHERMAN

Heavy Wrought Brass, Natural Finish; Rolled Threads; Length 3 in.

Nos.	95¼	95⅜	95½	95/1	95 1¼	95 1½	95/2
For Hose, in.	¼	⅜	½	1	1¼	1½	2
Wgt. doz., lbs.	1¼	1½	1¾	3¼	5	7	12
Per dozen	$2.70	2.70	2.70	4.80	11.00	15.50	25.00

SHERMAN—FEMALE.

Wrought Brass with Rolled Threads. Length 2 in.

Per Dozen.

No. 95¼F—FOR ¼ INCH HOSE..... $2.00

No. 95⅜F—FOR ⅜ INCH HOSE..... 2.00

Weight per dozen about 1¼ lbs.

Packed Loose

Expansion Ring Hose Couplings for No. 2 Special Grade Linen Hose.

‡No. 2A—AUTOMATIC EXPANSION (Except ⅜ in.); RING BRASS COUPLINGS

Diameter, in.	½	¾	1
Weight per set about, lbs.	¾	1	1
Per Set, Attached to Hose	$0.18	2.30	
Diameter, in.	1¼	1½	
Weight per set about, lbs.	1½	2½	
Per Set, Attached to Hose	$2.50	2.70	
Diameter, in.	2	2½	3
Weight per set about, lbs.	3½	5	8
Per Set, Attached to Hose	$3.50	4.00	11.00

NOTE—Difference in price of ⅜ in. and 1 in. due to ⅜ in. being a common brass coupling, not being made Automatic as is 1 in. and larger.

HOSE MENDERS.

WROUGHT BRASS TUBE AND MALLEABLE IRON CLINCHING PRONGS.

Nos.	34	35
For Hose, inches	¾	⅞
Weight per dozen about, lbs.	1	1
Per gross	$19.00	19.00

One-twelfth Gross in a Cardboard Box

COOPER.

Rolled from HEAVY BRASS TUBING, Polished; Projecting Teeth at [illegible] to prevent Hose from Slipping off, Length 3 in.

Per Gross

No. 2 C—½ IN., Weight per gross about 9 lbs..... $19.00

No. 3 C—¾ IN., Weight per gross about 13 lbs..... 19.00

One-fourth Gross in a Cardboard Box.

SHERMAN

Rolled from Brass Tubing, Polished; Length 1¾ in.

Per Gross

No. 80—½ IN.; Weight per gross about 2¾ lbs. . . $9.00

No. 82—⅝ IN.; Weight per gross about 2¾ lbs..... 9.00

No. 81—¾ IN., Weight per gross about 3¼ lbs. ... 9.00

One Gross in a Cardboard Box

MAGIC PATTERN.

Turned from Hardwood, Natural Finish; Length 3 in.

Per Gross

No. 2M—½ IN.; Weight per gross about 2 lbs.... $1.70

No. 3M—¾ IN.; Weight per gross about 2½ lbs 1.70

Packed Loose.

HOSE CLAMP PINCERS.

Cast Iron, Bronzed Brass Coil Spring between Handles, Iron Rivet at Joint; Length 6½ in.

Per Dozen

No. HC—For use with Brass Wire Hose Clamps Nos. 0 and 00; Weight per dozen about 7 lbs..... $3.60

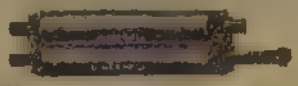
Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

WRINGER ROLLS.

ECONOMY.

WARRANTED ONE YEAR; Medium Coated with White Rubber over Composition Center; Steel Shaft



For Wood Frame Wringer No. CX10; Cogs on Both Ends, will also Fit Nos. TBX10, RBX10, RX10 and RBB10.

No.	70	72.
Kind	Upper	Lower
Length, Inches	10	10
Each	$2.50	2.50

For Wood Frame Wringers Nos. C10 and CB10, and Iron Frame Wringers Nos. C100 and C210; Cogs on Both Ends will also Fit Nos. R10, A10, 110, R100 and R101

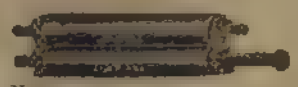
No.	80	81.
Kind	Upper	Lower
Length, Inches	10	10
Each	$2.50	2.50

For Wood Frame Wringer No. C11, and Iron Frame Wringer No. C110; Cogs on Both Ends, will also Fit Nos. R11 and R110

No.	91	91.
Kind	Upper	Lower
Length, Inches	11	11
Each	$2.80	2.80

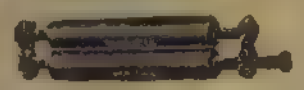
For Wood Frame Wringer No. C12, and Iron Frame Wringer No. C120; Cogs on Both Ends, will also Fit Nos. R12 and R120.

No.	101	101.
Kind	Upper	Lower
Length, Inches	12	12
Each	$3.30	3.30



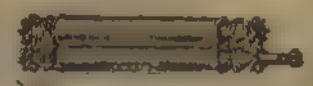
Will Fit Wood Frame Wringer No. RSX10, to use with Spiral Pressure Springs; Cogs on Both Ends

No.	111	111.
Kind	Upper	Lower
Length, Inches	10	10
Each	$2.50	2.50



For Wood Frame Wringer No. CS10, to use with Spiral Pressure Springs, Cogs on Both Ends, will also Fit No. RS10

No.	121	121.
Kind	Upper	Lower
Length, Inches	10	10
Each	$2.50	2.50



For Wood Frame Wringer No. CB10; Cogs on Both Ends, with Ball Bearings

No.	131	131.
Kind	Upper	Lower
Length, Inches	10	10
Each	$3.30	3.30

For Iron Frame Wringer No. C101, Friction Style, without Cog Wheels, will also Fit Nos. D100 and A100

No.	140	141.
Kind	Upper	Lower
Length, Inches	10	10
Each	$2.40	2.40

Will Fit Iron Frame Wringer No. D110, Friction Style, without Cog Wheels.

No.	130	131.
Kind	Upper	Lower
Length, Inches	11	11
Each	$2.60	2.60

Will Fit Iron Frame Wringer No. D120, Friction Style, without Cog Wheels

No.	161	161.
Kind	Upper	Lower
Length, Inches	12	12
Each	$3.00	3.00

Packed Loose, Weight Each about 3½ lbs

WASHERS.

SIMMONS RUN EASY.

Tub fitted with 3 Iron Hoops, 1¾ in. Wide, Aluminum Finish; Wringer Tub made of First Quality Louisiana Cypress, Ends Dovetailed, which makes a Perfect Watertight Box; Inside and Bottom of Tub Corrugated

Legs Braced with 1x⅛ in. Iron Braces, Painted Black, Securely Bolted.

Fly Wheel 16 in. Diameter, 1¾ in. Face, Painted Red, Adjusted at Bottom Side of Washer; Can be Easily Attached or Detached by Removing Cotter Pin.

Height of Washer from Floor to Top of Lid Gearing 32 in.

Length of Hand Lever from Top of Machine 20 in.

All Castings subject to Strain and Wear are made of Malleable Iron, balance of Best Quality Cast Iron.

Top Gearing finished Aluminum Bronze. Gearing at Bottom of Tub Painted Black. Lever Castings Painted Light Green.

Iron Side Handles, Shaped so as to Conveniently Fit the Hand, and are Substantially Fastened to Machine. The Lid Handle serves Two Purposes—To Lock the Lid of Machine and Raise Same

All Iron Parts coming in Contact with Clothes are Heavily Galvanized; Combined Hand and Foot Power, Easily Operated; Fly Wheel is Driven at High Rate of Speed, which is Easily Maintained, Contributing Easy Operation by means of Foot Pedal at Lower End, and Hand at Upper End of Lever Enables the Operator to keep Machine in Motion by Three Distinct Modes of Operation, either in Sitting or Standing Position. Can be Converted into a Power Machine Very Readily, as shown in cut.

Dasher Motion on **SIMMONS RUN EASY** is Accomplished in the Gearing.

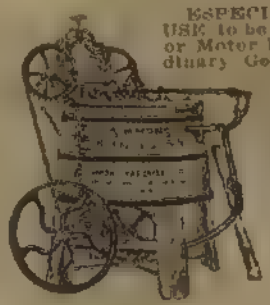
The Under Mechanism of Machine is Very Compact, Insuring Perfect Alignment of Gears and Rigidity of Bearings. Capacity about Seven Shirts or their Equivalent

All Castings Guaranteed to be Perfect, and will be Replaced whenever any prove Defective

The Construction of Gearing with Fly Wheel on Outside of Tub allows the Machine to be Operated by Hand and Power without any additional Mechanism; The Fly Wheel Surface will accommodate a 1½ in. Flat Belt, which can be used in connection with a Gasoline Engine or Electric Power

Foot Stirrup and Hand Lever can be easily detached when power is applied to Machine.

No. 882—SIMMONS RUN EASY; Size of Tub, Inside Measure 22¾ in. Wide at Bottom, 19⅝ in. Wide at Top, 13¾ in. Deep; Tub ⅝ in. Thick, Natural Finish, Covered with One Coat of Extra Quality Filler and One Coat of Select Varnish; Weight per dozen Crated about 1200 lbs. ..... Per Dozen, $182.00



ESPECIALLY EQUIPPED FOR POWER USE to be run by either a Gasoline Engine or Motor Power. Instead of having the ordinary Gearing at Bottom of Machine, it is fitted with a Patent Foot Lever Clutch, and in addition it is furnished complete with a Five Year Guarantee Wringer with Iron Frame Ball Bearings and Enclosed Gears, 8 in. Sprocket Wheel, 9½ in. Hand Wheel

The Foot Lever Clutch, on this Machine is fitted with 3 Notches

By pressing the Lever down to the first Notch, the Washer Pin Wheel is put into Operation.

By pressing the Lever down to the second Notch, the Machine is thrown into a Neutral Position so that only the Fly Wheel will move.

By pressing the Lever down to the third Notch, the Wringer is put into Operation.

No. 1932—SIMMONS RUN EASY; Tub and Legs ⅝ in. Thick, Natural Finish, Covered with One Coat of Extra Quality Filler and One Coat of Select Varnish. Inside Measurements of Tub, Diameter at Bottom 22¾ in., Diameter at Top 19⅝ in., Depth 13¾ in.; Weight per Dozen (Crated) about 1860 lbs. ..... Per Dozen, $422.00

One-twelfth Dozen in a Crate.

WASHERS.

SIMMONS RUN EASY.

Tub made of Selected Clear Grain Cypress, natural finish and varnished; Stave Legs, Braced at Bottom with 2 in. Cross Cleats; Three 1½ in. Steel Hoops, Malleable Iron Carrying Handles; Hinged Cover with Malleable Iron Lifting Handle. Heavy Wood Wringer Box, securely Braced. Solid Hardwood Pin Wheel

Heavy Cast Iron Gear Frame; Solid Cast Iron Gearings; Cast Iron Gear Cover (or Hood) Hinged Over Gear; Solid Cast Iron Fly Wheel 19⅝ in. Diameter with Plain Wood Handle

Fly Wheel and Gear Frame painted Blue, Gear Frame and Hoops finished in Aluminum; all other metal parts Black Japanned

No. 135—SIMMONS RUN EASY ROTARY; Height to Top of Tub 28 in.; Height to Top of Gear 37½ in., Inside Diameter of Tub 22 in. (at Bottom), 19⅜ in. Diameter (at Top); Depth 13 in.; Spread of Legs 28 in., Weight per dozen about 950 lbs....Per Dozen, $130.00

One-twelfth Dozen in a Crate

WINNER ROTARY

Tub and Legs Selected Cedar, Top and Bottom of Tub, Cypress; Legs Securely Bolted to Tub, and Strengthened by Wood Cross Cleats; Hinged Cover; Agitator Wheel, Selected Elm, Wringer Box Heavily made and Securely Clamped to Machine. Two Malleable Iron Carrying Handles on Side; 1 in. Flat Iron Hoops, Painted Green; Tub Finished in Natural Wood, Covered with One Coat Filler and Two Coats High Grade Varnish; 18 in Fly Wheel and Balance Gearing Finished in Gold Bronze, Cog Pinions between Fly Wheel and Back Bar covered with Sheet Steel, Wood Gold Bronze Finish, Agitator has full ¾ Turn before reversing, causing a Thorough Agitation of the Clothes at all times; Inside Measure of Tub 23 in. at Bottom 20⅜ in. at Top, 13¾ in High Height over all 38½ in., Spread of Legs 25½ in

No. 190 WINNER ROTARY; Weight per dozen (Crated) about 980 lbs .....Per Dozen, $110.00

One-twelfth Dozen in a Crate

ROYAL—WATER MOTOR.

Must Have 35 Pounds Water Pressure to Operate the Machine. Cannot be Returned when Once Used, Except in Cases of Defective Material

The ROYAL WATER MOTOR attached to this Machine will do the work without the aid of any Hand Power whatever; All that is required is to place the Clothes in the Machine with plenty of Hot Water, and then turn on the Faucet and leave it alone.

Base of the Motor is made of Solid Cast Iron, Painted Green; Cylinder and the Ends are made of Solid Brass. The Water Enters the Intake Pipe, which forces the Propeller backward and forward. Does not require any Hot Water to operate the Motor

Complete with ¾ in. 3-ply Rubber Intake Hose, 36 in. Long, with ¾ in. Brass Coupling, also One Piece of ¾ in. 3-ply Rubber Discharge Hose 36 in. Long; Size of Cylinder 3½ in. in Diameter, with Cast Iron Geared Propelling Piston; Length of Motor over all 18 in.

Cypress and St. Francis Basin Red Gum Wood, Heavy Steel Hoops, Painted Green; Wood Legs, securely Bolted and Braced, Hinged Wood Cover, with Malleable Iron Lifting Handles. All Metal Parts Painted Green; Wood Wringer Box; Size of Tub, Inside, 12⅝ x 20⅜ x 23 in.; Height over all 42 in.; Spread of Legs 25½ inches.

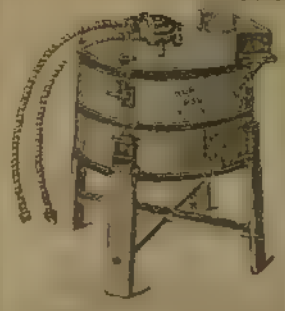
Per Dozen

No. 10—Weight per dozen (Crated) about 900 lbs...$200.00

One-twelfth Dozen in a Crate, Securely Wrapped

WASHERS.

PORTLAND—WATER MOTOR



First Quality Cypress Tub, Natural Color, Varnished; 4 Hardwood Legs, securely held in place by 4 Steel Caps, which are screwed to the Tub and braced at Bottom by Cross Cleats; Three 1 in. Steel Hoops; ⅛ in Steel Wire Carrying Handles; Hinged Cover with ⅛ in. Steel Wire Lifting Handle; Heavy Hardwood Wringer Box securely Braced and Bolted to Tub; Solid Hardwood Pin Wheel; Solid Cast Brass Gearless Motor, Bronze Finish. All other Motor Parts Black Japanned

The Portland Water Motor is Gearless, made of Cast Brass Throughout and is Small and Compact in form. Can be run on a 20-lb. Water Pressure

Furnished Complete with One 3½ ft. Piece of Wired Rubber Intake Hose, with ⅝ in. Couplings and One 3 ft. Piece of Wired Rubber Discharge Hose with ⅝ in. Coupling and Brass Anti-splash End. Per Dozen

‡No. 1P—PORTLAND; Dimensions of Tub, Diameter at Top 23 in., Diameter at Bottom 20 in., Depth 13 in.; Length of Wringer Box 17½ in.; Height over all 36 in.; Weight each about, Crated, 65 lbs $230.00

STAR, COMPLETE WITH WRINGER

Two kinds of Wood is used: Louisiana Red Cypress and Cedar, finished in Natural Wood.

Inside Dimensions of Tub: 12¾ in. Deep, 20¾ in. Diameter at Top and 23 in. Diameter at Bottom. The Staves and Bottom of Tub are Corrugated and finished very smoothly, Legs bolted to the bottom of Tub.

Tub is held together by means of Heavy Flat Hoops.

The Lid of the Tub is reinforced, which seals the Tub and retains the heat perfectly. The Agitator Wheel is made of Well Seasoned Elm, thoroughly soaked in Dipping Oil to prevent checking or warping.

The Wringer is made with Straight End Pieces which fit into Special Cast Iron Brackets, Securely Bolted to the Machine. The Wringer Rolls are 1⅝ in. in Diameter, 10 in. Wide, and the Rubber in the Rolls is of the Three Year Guaranteed Quality. The Rolls are Ball-bearing and Enclosed.

The Water Outlet is through a Brass Faucet, opened by means of a Thumb Screw

When Lid is open it is entirely out of the way.

STAR ELECTRIC-POWER TRANSMISSION

Motive Power is a ½ H. P. Motor, Driving a 1½ in. Pulley Wheel—1700 R. P. M. This Power is transmitted through a Belt to a Balance-wheel, having a Base Diameter of Approximately 12 in., with the Heavier Balance Diameter of the Wheel 14 in. Connected to this Balance-wheel is a Cut Rawhide Pinion, which we are using not only to insure easy and smooth running, but it obviates entirely any loud noise.

Motors are securely bolted to Tub Legs, and rest on an Oak Baseboard 1 in. Thick and 5 in. Wide. The Motor is attached to the Baseboard by means of Bolts, and can be readily taken off when desired. The Belting used is of a Special Grade of Sable Belting

Complete with Cloth Covered Extension Cable and Plug. Can be attached to any regular House Lighting Socket.

For Standard Motors, either 110 or 220 voltage direct current, or 110 voltage, 60 cycle single phase alternating current.

Per Dozen

No. SDC—FOR DIRECT CURRENT $1,010.00

No. SAC—FOR ALTERNATING CURRENT.....1,010.00

Weight per Dozen (Crated) about 2208 lbs.

STAR POWER

Fitted with 8 in. diameter Flat Face Drive Pulley with 2 in. Face, connected to a cut Rawhide Pinion, which causes easy and smooth running and also obviates the loud noises caused by metal pinions

The speed of the Pulley on the STAR POWER Machine should not exceed 350 revolutions per minute in order to get the best result

No. SP—STAR POWER.

Per Dozen $530.00

Weight per Dozen (Crated) about 1320 lbs.

One-twelfth Dozen in a Crate

ELECTROLIERS AND ELECTRIC CHANDELIERS

PRICE EACH

No. 12098, Price, $50.00
Standard, Bronze Finish. Height, 27 inches, Base, 5¼ inches; Wired with 6-inch Silk Cord, Plug Socket, 2¼-inch Electric Holders. Frosted Tulip Shade and Lamps.

No. 12097, Price, $20.00
Standard, Natural Verde Finish, 2-Light, Wired complete as shown, with Grape Stuffed Socket. No Electric Bulbs.

No. 12096, Price, $36.00
4 Light Wood Fixture Weathered Oak Finish. Length, 36 inches, width, 24 inches. Wired complete as shown, with Sockets. No Bulbs.

No. 12099, Price, $95.00
4-Light, Old Brass Finish. Length, 42 inches, width, 18 inches, Cast Plate, 18 inches in diameter. Wired complete with Key Sockets and Holders, as shown 5½ x 6 inches roughed and cut Star Ball. No Lamps.
No. 12100, Same as above, 5-light, $100.00
No. 12101, Same as above, 6-light, 110.00

ELECTRIC AND GAS PORTABLE LAMPS

No. 12091, Price, **$10.00**

Electric only. Height 20½ inches, with 11 inch Octagon, Filigree Metal Shade Fitted with any of the colors of Amber Green or Amber Green Glass. Finish in Pompeian Bronze, Verdigris, Statuary Bronze or Antique Brass. Complete with socket 6 feet parallel silk cord and Benjamin plug.

No. 12093, Price, **$30.00**

4 Light Electric only, Portable. Height 22½ inches shade, 14 inches, wired complete with 8 feet silk lamp cord. Attachment Plug and Chain Pull Socket, no Bulbs

No. 12092, Price, **$36.00**

The "19th Century." The latest pattern. Extreme height, 23½ inches, with a 15-inch Hexagon Filigree Shade. Sunset and Water Color Bent Glass. Finished in Pompeian Bronze, Verdigris, Statuary Bronze and Antique Brass. Complete with Pull Sockets and 6 feet parallel silk cord and Benjamin plug. Also fitted for Gas.

No. 12084, Price, **$18.00**

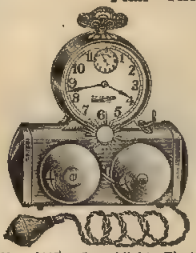
This Electric or Gas Portable Lamp is 22½ inches high, with a 16-inch Shade, in Amber, Green or Gold Amber Glass. Aprons of assorted colors. Finished in either Bronze, Pompeian or Antique Brass. Complete with 3 bulbs, six feet of parallel silk cord and plug. Gas bare or fitted as ordered

No. 12095, Price, **$21.00**

Above Lamp is made for Electric only. Height, 20½ inches. Filigree Metal Shade in Amber, Green, Ruby or Assorted Glass. Shade, 15 inches. Aprons of different colors. Finished in Pompeian Bronze or Antique Brass. Fitted for 2 electric bulbs, pull sockets and 6 feet silk cord.

Electric Flashlight Alarm Clocks

For Premium Purpose or some specially designed selling Plan—These are very good



No. J416. Searchlight Electric Alarm Clock, operated by dry battery. By pressing pear push at end of lamp cord, you can see the time at night. The alarm will ring until you get up and shut it off. Very loud. It may also be used as a call bell; each clock is fitted with dry cell battery, and comes complete, ready for use. Furnished in either highly polished nickel or copper oxidized finish. Ready seller everywhere. Each..... 2.35

No. JC452. Electric Alarm and Flash Light Clock, best utility clock made. It contains also money bank with combination lock and a search light operated from bulb on end of long cord, may be extended to bed side, when pressed illuminates the dial. It has strong loud alarm operated with dry cell battery, fitted with a guaranteed 8-day American movement. It is of fine workmanship and very handsome appearance, best in its line.
Each 4.30

Special Dainty Clock

One of the Neatest in Design and Workmanship.

No. J8356. French Ivory Clock, seamless extra heavy case of white celluloid, ivory grain, roll rim front, back is flanged, inserted, celluloid feet and fancy ring top, 2 inch dial with bright gilt reflector, gilt hands, dial is white ivoroid, colored Arabic figures, winding and setting devices in back, reliable 1 day movement, extra heavy crystal front. The whole clock is of a rich massive appearance. It has the earmarks of a high priced genuine ivory clock, of good finish and workmanship throughout. For a special proposition or premium purpose, it should appeal very strongly to all dealers. We are quoting these at a special price having bought an extra large quantity to secure a low figure and it should appeal to all for propositions of the better class
Each .. .. .75

CLOCK FIGURES
The largest sized at these price in the market

No. J448. The Scout and Horse. This figure represents a wild west scout on hor[illegible] back; it has been the most nor[illegible]rnament in the line, a [illegible] clean cut figure and [illegible]0 in high. Lacquer [illegible] Each. ..... .70

No. J449. Clock Figure Horse and Horse Tamer, representing beautiful horse, rearing on hind legs. The tamer is holding him with all his might; 7½ in. high, lacquer bronze finish.
Each .. .. .. .90

Premium Clock Special

No. J447. Clock on Stand. This is a handsome timepiece suitable for the mantel the dresser or office desk. High grade movement, heavy seamless nickel case with ring. It is mounted in a forked support on a heavy black finish Mock Onyx base, will not upset very easily. It is a neat item in clock line which we offer at a special price. Excellent timekeeper; a good looker. Each..... .75

Gold Plated Clocks

No. JC340. Art Clock, case is of heavy casting, fine workmanship, with art portrait head in raised effect on front, nude parts finished in brown, case in rich gold finish with burnished parts, 2½ in. dial, fancy center, reliable 24-hour movement, setting devices in back, 8¾ in. wide, 6½ in. high.
Each 1.70

New Art Style Clock

No. JC268. Art Clock, gold plated front of a fancy double scroll design, handsome raised figure, nude parts finished in brown, gold plated, bright burnished parts, will not tarnish, 2¾ in. dial, fancy center, reliable American 24-hour movement, setting devices in back, a rich looking clock of handsome design, 11 in. high. Each..... 1.20

ELECTRIC PORTABLES.

NO BULBS INCLUDED.

Chipped Glass Shade, 14 in. in Diameter, with Hand Painted Landscape Decorations in Variegated Colors: Red, Green and Yellow; Brass Stand, Olive Green Finish; Diameter of Base 7½ in.; Brass Shade Cap, Olive Green Finish. Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1076½ — TWO LIGHTS; Pull Chain Sockets; Height over all 21 in.; Weight each about 28 lbs. $21.00

Shade 14 in. in Diameter, with Art Nouveau Decoration in Green and Pink, with Crystal Background and Black Lines; Interior of Base Cast Iron; Corrugated Seamless Brass Column and Outer Casing of Base Satin Finish; Diameter of Base 6 in.; Complete with 6 ft. Green Woven Silk Electric Cord, with Pull Plugs.

Each

No. 421—TWO LIGHTS. Pull Sockets with 10 in. Brass Bead Chains. Height over all 22¾ in. Weight each about 4 lbs. $18.00

Chipped Glass Ivory Color Shade, 14 in. in Diameter, with Green Blended Border and Art Nouveau Decorations; Ornamental Iron Stand, Ivory Finish; Diameter of Base 6¾ in.; Ivory Finish Shade Cap; Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1042½ — TWO LIGHTS; Pull Chain Sockets; Height over all 21 in.; Weight each about 28 lbs. $17.00

Heavy Brass Bound Shade, 12 in. Square, with Green Opalescent Art Glass Panels and 5 in. Fancy Bead Fringe; Cast Brass Stand, Brushed Finish; Base 6 in. Square; Pull Chain Socket, Complete with 6 ft. Green Silk Insulated Cord with Pull Plug.

Each

No. 118/105 — ONE LIGHT; Height over all 20¾ in.; Weight each about 30 lbs. $18.00

One Complete Portable in a Wood Box.

ELECTRIC PORTABLES.

NO BULBS INCLUDED.

Heavy Brass Bound Dome Shape Shade, 14 in. in Diameter, with Green Opalescent Art Glass Panels and 4 in. Bead Fringe; Brass Stand, Old English Finish; Diameter of Base 7½ in.; Pull Chain Socket; Complete with 6 ft. Green Silk Insulated Cord with Pull Plug.

Each

No. 154 17 — ONE LIGHT; Height over all 22½ in.; Weight each about 28 lbs. $15.50

Solid Green Chipped Glass Shade, 14 in. in Diameter, with Art Nouveau Design in Gold Striping and White Lines, Ornamental Brass Stand, Oxidized Finish; 6¾ in. Hexagon Base; Brass Shade Cap, Oxidized Finish; Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1071½ — TWO LIGHTS; Pull Chain Sockets; Height over all 19¾ in.; Weight each about 28 lbs. $15.00

Heavy Brass Round Hexagon Shade, 14 in. in Diameter, with Amber Opalescent Art Glass Panels and 3 in. Apron; Fancy Embossed Brass Plated Stand, Base 7 in. Square; Pull Chain Socket; Complete with 6 ft. Green Silk Insulated Cord with Full Plug.

Each

No. 651/108 — ONE LIGHT; Height over all 21½ in.; Weight each about 28 lbs. $13.50

Heavy Brass Bound Hexagon Shade, 14 in. in Diameter, with Amber Opalescent Art Glass Panels and 4 in. Bead Fringe; Brass Stand, Brushed Finish; Base 5 in. Square; Column 1 in. Square; Key Socket; Complete with 6 ft. Green Silk Insulated Cord with Pull Plug.

Each

No. 118/107 — ONE LIGHT; Height over all 20 in.; Weight each about 25 lbs. $12.00

One Complete Portable in a Wood Box.

ELECTRIC PORTABLES.

NO BULBS INCLUDED.

Chipped Glass Shade, 12 in. in Diameter, with Landscape Decoration in Variegated Colors Brass Stand, Japanned Bronze Finish; Diameter of Base 7 in.; Brass Shade Cap, Japanned Bronze Finish; Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1078½—TWO LIGHTS, Pull Chain Sockets; Height over all 19¾ in.; Weight each about 25 lbs.....$11.50

12 in. Square Shade, with 3 in. Embossed Cherry Design Apron and Crown; Green Opalescent Art Glass Panels, with Red Decorated Cherries in Apron and Crown, Cast Brass Base, 6 in. Square, Heavily Embossed; 1½ in. Square Brass Column; Metal Parts Brushed Brass Finish; Complete with 6 ft. Green Silk Reinforced Electric Cord, with Pull Plug.

Each

No. 431—ONE LIGHT, Pull Chain Attachment; Height over all 21 in.; Weight each about 6 lbs. $11.20

Opalescent Shade 12 in. in Diameter, Variegated Gold and Orange Blend, Brass Stand, Shaded Copper Finish; Diameter of Base 7 in. Brass Shade Cap, Shaded Copper Finish. Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1038½—TWO LIGHTS; Pull Chain Sockets; Height over all 19¾ in.; Weight each about 25 lbs.....$10.00

Heavy Brass Bound Shade, 11 in. Square, with Amber Opalescent Art Glass Panels and 3 in. Bead Fringe; Cast Iron Base, 5¾ in. Square, Brushed Brass Finish; Brass Column, 1 in. Square, Brushed Finish; Key Socket, Rubber Insulated Cord with Pull Plug.

Each

No. 813—ONE LIGHT; Height over all 13 in.; Weight each about 25 lbs. $9.00

One Complete Portable in a Wood Box

ELECTRIC PORTABLES.

NO BULBS INCLUDED.

10½ in. Square Shade, made of Cast Iron, Dead Black Wrought Iron Frame with Green Art Glass Panels, Heavy Moulded Glass Base, 6 in. Square; 8½ in. Cast Iron Column, Dead Black Wrought Iron Finish, with Green Art Glass in Sides. Complete with 6 ft. Twisted Electric Cord with Screw Plug

Each

No. 414—ONE LIGHT; Height over all 19½ in.; Weight each about 35 lbs. $9.00

Frosted Decorated Chipped Glass Shade, 9½ in. in Diameter, with Green Tinted Border, Blue Violets and Green Leaves; Brass Stand, Old English Finish; Diameter of Base 6 in.; Brass Shade Cap, Old English Finish, Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug.

Each

No. 1081½—ONE LIGHT Key Socket; Height over all 17¼ in.; Weight each about 23 lbs. $7.20

12 in. Cast Metal Shade Frame, Verde Green Finish, Fancy Straw Opalescent Glass Inner Casing, with Ruby Band at Bottom, Solid Cast Metal Column and Base, Verde Green Finish, Base 6¾ in. in Diameter; Complete with 6 ft. Silk Woven Electric Cord with Screw Plug

Each

No. 430—ONE LIGHT; Height over all 20½ in.; Weight each about 7 lbs. $7.00

Green Chipped Glass Shade, 9½ in. in Diameter, White Lined, Brass Stand, Old English Finish, Diameter of Base 7 in.; Brass Shade Cap, Old English Finish; Complete with 6 ft. Green Silk Insulated Cord with Edison Screw Plug

Each

No. 1078½—ONE LIGHT; Key Socket; Height over all 17¾ in.; Weight each about 23 lbs. $6.50

One Complete Portable in a Wood Box

WRENCHES

BICYCLE AND AUTO

	Per Dozen
No. 7—Bicycle, 5 in. Long, Opens 1½ in. Cast Steel, Satin Finish, Flat Bar, Patent Stamped Jaw, Weight Each 4½ Oz. One Dozen in a Box	$2.40
No. 3—Bicycle, 5½ in. Long, Opens 1½ in. Fluted Drop Forged Steel Bar, Case Hardened, Blued, Weight Each 4½ Oz.	$3.50
No. 16—Auto, 7 in. Long, Opens 2⅞ in., Fluted Drop Forged Steel Bar, Case Hardened, Nickel Plated, Weight Each 7 Oz. One-twelfth Dozen in a Box	5.50

NEW ELGIN ADJUSTABLE

Extra Jaws will renew the Wrench indefinitely.

Wrought Steel, Hardened Steel Jaws, Polished and Nickel Plated

	Per Dozen
New Elgin—7 in. Long, for ⅛ to ⅜ in. Pipe and ¼ to ⅜ in Round Iron	$12 50
Extra Jaws—Hardened Steel, Makes the Old Wrench as Good as New	3.60

Weight Per Dozen 9 Pounds
One-half Dozen in a Box

BAXTER'S ADJUSTABLE "S"

Solid Cast Steel, Polished

Length, Inches	6	8	10
Opens, Inches	½ to 1½	¾ to 1¾	½ to 2
Weight Per Dozen, Lbs.	10	16	30
Per Dozen	$9 00	12 00	18 00
	8 00	11.00	15 00

One-half Dozen in a Box

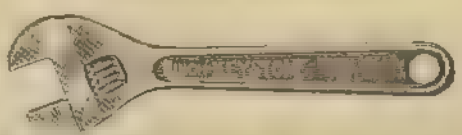
WESTCOTT ADJUSTABLE "S"

Japanned Malleable Iron Handle, Polished Forged Steel Jaws

Nos.	76	78	80	82
Length, Inches	6	8	10	12
Opens, Inches	¾	1	1⅜	1⅝
Weight Per Dozen, Lbs.	5	14	23	37
Per Dozen	$7.20	9.00	12.00	15.00
	10 00	12 00	18.00	20.00

One-half Dozen in a Box

KEYSTONE ADJUSTABLE



Special Grade Drop Forged Steel Hardened Throughout, Straight Handle, Polished All Over Except Web

Nos.	706	708	710	712
Length, Inches	6	8	10	12
Opens, Inches	¾	⅞	1⅛	1⅓
Weight Per Dozen, Lbs.	5	14	23	37
Per Dozen	$7.80	9 60	12.00	15.00
	10.90	13 40	16 80	21.00

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

WRENCHES

DOUBLE END ALLIGATOR

Per Dozen

No. 26—5¼ in. Long, Tempered Steel, Blue Mottled with Screw Driver Point.....$4.00

Very light but most durable. Indispensable as a pocket tool for engineers and machinists.

Weight Per Dozen 3 Pounds

One Dozen in a Box

HANDY

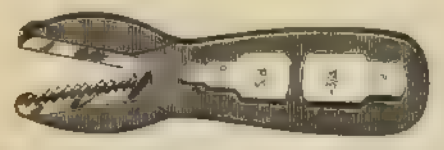
Extra Warranted Steel, Oil Tempered, Milled Teeth, Natural Finished Body, Blued and Polished Jaws

Per Dozen

No. 1—5½ in. Long, Holds ⅛ to ⅝ in. Pipe and ¼ to ⅝ in. Round Iron..... $2 50

Weight Per Dozen 4 Pounds

One Dozen in a Box



Drop Forged Steel, Oil Tempered, Milled Teeth, Natural Finished Body, Polished Ribs on Jaws

With Openings in Handle to Hold ¼, ⅜, ½, ⅝ and ¾ in. Nuts.

Per Dozen

No. 12—5½ in. Long, Holds ⅛ to ⅜ in. Pipe and ¼ to ⅝ in. Round Iron.....$3.00

Weight Per Dozen 4½ Pounds

One Dozen in a Box

Drop Forged Steel, Oil Tempered, Milled Teeth, Chased Body, Polished Ribs on Jaws

With Openings in Handle to Hold ⅜, ½, ⅝, ¾ and ⅞ in. Nuts

Per Dozen

No. 13—7 in. Long, Holds ⅛ to 1 in. Pipe and ⅜ to 1¼ in. Round Iron..... $5.00

Weight Per Dozen 9 Pounds

One-half Dozen in a Box

ALWAYS READY

Drop Forged Steel, Oil Tempered, Milled Teeth, Nickel Plated

Nos.	1	2	2½	3
Length, Inches	5	7	9	11
Holds Pipe, Inches	⅛ to ⅜	⅛ to 1¼	⅛ to 1⅝	⅜ to 1⅝
Wt. Per Doz., Lbs.	6	13	24	34
Per Dozen	$4 50	6 00	9 50	14 40

One-half Dozen in a Box

Drop Forged Steel, Oil Tempered, Milled Teeth, Natural Finished Chased Body

Nos.	101	102
Length, Inches	5	7
Holds Pipe, Inches	⅛ to ⅜	⅛ to 1¼
Weight Per Dozen, Lbs.	6	12
Per Dozen	$4 50	6 00

One-half Dozen in a Box

READY GRIP

Per Dozen

Ready Grip—5½ in. Long, Forged Best Quality Steel, Hardened and Tempered, Milled Jaws, Full Polished, Fits Any Size Nuts from ¼ to ⅜ in $3 50

Weight Per Dozen 3 Pounds

One-half Dozen in a Box

BULL TERRIER

Per Dozen

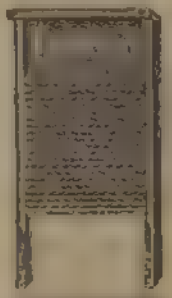
Bull Terrier—5½ in. Long, Forged High Grade Steel, Oil Tempered Jaws, Nicely Polished and Lacquered, Small End Holds ⅛ to ¼ in. Pipe and ¼ to ⅞ in. Round Iron, Large End Holds ⅛ to ⅜ in. Pipe and ¼ to ⅝ in. Round Iron $4 00

Weight Per Dozen 4 Pounds

One-half Dozen in a Box

WASH BOARDS.

Bodies made of Selected Gum Wood, Natural Finish; Frames and Soap Boxes Securely Nailed; All Rubbing Surfaces and Ends Mortised into Frames. All Rubbing Surfaces Dove Tailed to Top of Frame. Wood Bodies and Frames are all Sand Papered after Board is made, making it a Smooth Finished Board.



BRASS

3 Piece Truss Back; Length over all 24⅜ in.; Width over all 12⅝ in.; 2⅜ in. Protector; 4⅞x10⅜ in. Soap Box.

Per Dozen

No. 140—EMPRESS; CABLE CRIMP BRASS Rubbing Surface, 10⅜ x 11⅛ in.; Weight per dozen about 35 lbs. . . $6.50

Ventilated Wood Back; Length over all 24⅜ in.; Width over all 13⅝ in.; 2⅜ in. Protector; 4⅞x13 in. Soap Box.

Per Dozen

No. 134—UNIVERSAL; GLOBE CRIMP ZINC Rubbing Surface, 12x13 in.; Weight per dozen about 41 lbs. $6.50

Ventilated Wood Back; Length over all 24⅜ in.; Width over all 12⅝ in.; 2⅜ in. Protector; 4⅞x10⅜ in. Soap Box.

Per Dozen

No. 22 — SIMMONS LACLEDE; CABLE CRIMP ZINC Rubbing Surface 10⅜ x 11 in.; Weight per dozen about 34 lbs $5.20

BRASS

3 Piece Truss Back; Length over all 24⅜ in.; Width over all 12⅝ in.; 2⅜ in. Protector; 4⅞x10⅜ in. Soap Box.

Per Dozen

No. 139 — EMPEROR; SPIRAL CRIMP BRASS Rubbing Surface, 10⅜ x 11⅛ in.; Weight per dozen about 30 lbs. . $6.50

Length over all 23⅜ in.; Width over all 12⅛ in.; 2⅜ in Protector, 5 x10⅜ in. Soap Box

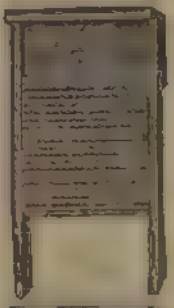
Per Dozen

No. 81—ZULU; DOUBLE ZINC Rubbing Surface, 10⅜x11 in.; EAGLE CRIMP FRONT AND GLOBE CRIMP BACK; Weight per dozen about 35 lbs. $6.50

Length over all 24 in.; Width over all 11⅛ in.; 2⅜ in. Protector; 4⅞x9⅜ in. Soap Box.

Per Dozen

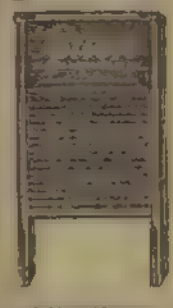
No. 30—DELMAR; DOUBLE SOLID ZINC PENCIL CRIMP RUBBING SURFACE ON BOTH SIDES 10x21½ in., with ⅜ in. Steel Rod Extending Through at Bottom; Securely Riveted at Each End. Weight per dozen about 32 lbs $5.50



BRASS

Per Dozen

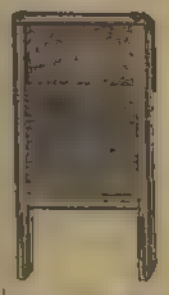
No. 200 — RUBWELL; SPIRAL CRIMP BRASS Rubbing Surface, made of 28 Gauge Brass, 10⅜ x 11 inches; 4 Piece Truss Back. Length over all 24 in.; Width over all 12½ in.; 2⅜ in. Protector; 5x10⅜ in. Soap Box; Weight per dozen about 34 lbs. . $6.00



Length over all 23¾ in.; Width over all 12⅛ in.; 2⅜ in. Protector; 5x10⅜ in. Soap Box.

Per Dozen

No. 85—BLACK; DOUBLE ZINC Rubbing Surface 10⅜ x 11 inches; CABLE CRIMP FRONT AND GLOBE CRIMP BACK; Weight per dozen about 35 lbs. $6.50



Solid Wood Back; Length over all 23¾ in.; Width over all 12⅛ in.; 2⅜ in. Protector; 4⅞x9⅜ in. Soap Box.

Per Dozen

No. 10-DAZZLER; EAGLE CRIMP ZINC Rubbing Surface 10x10½ in. Weight per dozen about 26 lbs. $5.00

1 Piece.

Per Dozen

No. 150 — RUBWELL; SPIRAL CRIMP BRASS Rubbing Surface, 9⅞x10⅜ in.; 3 Piece Truss Back; Length over all 24⅜ in.; Width over all 12⅝ in.; 2⅜ in. Protector, 4⅞ x10 in. Soap Box; Weight per dozen about 38 lbs. . $5.00

Length over all 23¾ in.; Width over all 11⅛ in.; 2⅜ in. Protector; 4⅞ x10 in. Soap Box.

Per Dozen

No. 30—METEOR; DOUBLE ZINC Rubbing Surface, 10 x 10½ inches; GLOBE CRIMP FRONT, and EAGLE CRIMP BACK; Weight per dozen about 34 lbs. $5.70

Solid Wood Back, Length over all 23¾ in.; Width over all 11⅛ in.; 2⅜ in. Protector; 4⅞x9⅜ in. Soap Box.

Per Dozen

No. X1 — LOTUS; GLOBE CRIMP ZINC Rubbing Surface 10x10½ in. Weight per dozen about $4.00

Ventilated Wood Back, Length over all 23⅜ in.; Width over all 13⅝ in.; 2⅜ in. Protector; 5x10⅜ in. Soap Box. Per Dozen

No. 178—BIRD; WAVE CRIMP, SPECKLED BLUE AND WHITE ENAMELLED STEEL Rubbing Surface, 10⅜x12 in. Weight per dozen about 36 lbs. . . . $7.00

3 Piece Truss Back; Length over all 24⅜ in.; Width over all 12⅝ in.; 2⅜ in. Protector; 4⅞x10⅜ in. Soap Box.

Per Dozen

No. 87 UTILITY; SPECIAL CRIMP ZINC Rubbing Surface 10⅜x11⅛ in. Weight per dozen about 31 lbs. $5.20

GLASS

Length over all 23¾ in.; Width over all 12 in.; 2⅜ in. Protector, 4⅞x10⅜ in. Soap Box.

Per Dozen

No. 175 — CORRUGATED GLASS, EAGLE CRIMP SOLID GLASS Rubbing Surface 10⅜x11⅛ in. GLASS Back; Weight per dozen about 46 lbs $6.00

Length over all 23¾ in.; Width over all 12⅝ in. 2⅜ in. Reversible Protector, 4⅞x10⅜ in. Soap Box. Per Dozen

No. 40—PROTECTOR; DOUBLE ZINC Rubbing Surface 10⅜x10⅜ in. EAGLE CRIMP FRONT and GLOBE CRIMP BACK. Weight per dozen about 38 lbs. . $7.50

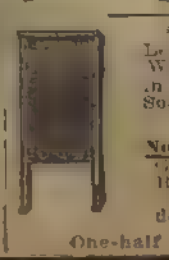
One-half Dozen in a Crate.

Ventilated Wood Back Length over all 23¾ in. Width over all 13⅝ in. 2⅜ in Protector, 5 x10⅜ in. Soap Box

Per Dozen

No. 20—ECONOMY; CRIMP ZINC Rubbing Surface 10x11 in.; Weight per dozen about 34 lbs. $5.00

One-half Dozen in a Crate.



Solid Wood Back Length over all 23¾ in. Width over all 12⅛ in. 2⅜ in Protector, 3½x5¾ in. Soap Box

Per Dozen

No. 170 LILLIPUTIAN; CRIMP ZINC Rubbing Surface 7½x10 in. Weight per dozen about 16 lbs . $2.50

One-half Dozen in a Crate.

CLOTHES LINES.

WOVEN WIRE, GALVANIZED; 6 STRANDS.

Nos.	16	18	19	20
No. of Wire	16	18	19	20
Length each, feet	100	100	100	1[illegible]
Weight per doz. about, lbs.	70	41	33	2[illegible]
Packed in Barrels, dozen	6	6	[illegible]	10
Per dozen	$10.70	5.70	5.20	4.30
Nos.	[illegible]	75	50	40
No. of Wire	[illegible]	20	20	2[illegible]
Length each, feet	[illegible]	75	50	40
Weight per dozen about, lbs.	[illegible]	18	12	8
Packed in Barrels, dozen	[illegible]	12	2[illegible]	3
Per dozen	[illegible]	$3.50	2.50	1.80

Per Dozen

No. 4H—WOVEN WIRE, GALVANIZED; Hollow Pattern, 100 ft. Long, 11 Strands of No. 20 Wire woven in Tubular form. Outside Diameter 3/16 in.; Weight per dozen about 45 lbs. $7.50

No. 9—PLAIN WIRE NO. 9, GALVANIZED; 100 ft. Long; Weight per dozen about 70 lbs. ..... [illegible]

Five Dozen in a Barrel.

CLOTHES LINE REELS.

NEW PATTERN.

Made of Heavy Japanned Cast Iron; With Revolving Top, Securely Bolted; Can be Turned in any Direction on the Post Socket while in use, so that Clothes can be Hung without the User Changing Position.

Height over all 5½ in.; Width 14 in.; Diameter of Post Socket 4¼ in.; Size of Arm Sockets 1¾x2¾ in.

No. 25—Weight per dozen about 180 lbs. ..... Per Dozen, $18.00

Packed Loose.

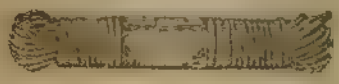
CLOTHES LINES.

AVIS, REINFORCED COTTON TWISTED; Each Line is Reinforced by 6 No. 20 Galvanized Steel Wires.

Per Dozen

No. 50W—3/16 in.; 50 ft. Hanks; Weight per dozen Hanks about 8 lbs. $4.50

Packed Loose.



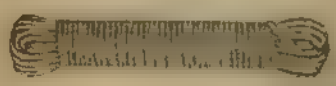
In 60 ft. Hanks, Two Connected.

Per Dozen

No. 8B50—SUPERIOR BRAIDED WHITE COTTON; Diameter 3/16 in.; Weight per dozen about 5½ lbs. $5.00

No. BP50—BRAIDED WHITE COTTON COVERING; Patent Jute Center; Diameter 3/16 in.; Weight per dozen about 3½ lbs. 2.50

No. CT50—COTTON, TWISTED [illegible] Weight [illegible] lbs. 2.70



Per Dozen

No. S 50—SISAL TWISTED; Diameter 3/16 in.; 3 Thread; Weight per dozen about 4½ lbs. $2.00

No. J50—JUTE TWISTED; Diameter ¼ in.; Weight per dozen about 15 lbs. 3.30

One Dozen in a Package; One Gross in a Bundle.

CLOTHES LINE HOOKS.

JAPANNED Cast Iron; 1¾x1 in. Plate.

Per Dozen

No. 340—Weight per doz. about 4 lbs. $0.60

Two Dozen in a Cardboard Box.

Per Dozen

No. 23—JAPANNED Cast Iron; 2x3 in. Plate. $0.80

No. 223—GALVANIZED Cast Iron; 2x2 in. Plate. 1.00

Weight per Dozen about 5 lbs.

Per Dozen

No. 12—JAPANNED Cast Iron; 1½ x 2½ in. Plate. $1.10

No. 122—GALVANIZED Cast Iron; 2½x2½ in. Plate. 1.20

Weight per Dozen about 6 lbs.

One Dozen in a Cardboard Box.

Per Dozen

No. 212—JAPANNED Cast Iron, 1½ in. Wrought Screw, 1¾ in. Cast Iron Plate $0.90

No. 224—GALVANIZED Cast Iron, 1½ in. Wrought Screw, 1¾ in. Cast Iron Plate. 1.20

Weight per Dozen about 2½ lbs.

Two Dozen in a Cardboard Box.

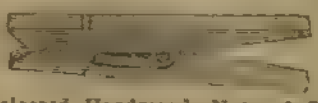
CLOTHES PINS.

Wood, Natural Finish; Can be used on Wire or Rope Clothes Line; Length 2¾ in.; Width ⅝ in.; 16 Gauge Galvanized Wire Spring.

Per Box of 5 Gross

No. 2—HOYT'S PATENT; Weight per box about 18 lbs. $2.50

Three Dozen in a Carton; Twenty Cartons in a Wood Case.



Selected Hardwood, Natural Finish with Galvanized Steel Bow Spring Clamp; Grooved Jaws; Can be used on either Wire or Rope Clothes Line; Length over all 3¼ in.; Width ½ in.; Spread of Jaws ⅜ in.

Per Gross

No. 311—HOLDFAST; Weight per gross about 4 lbs. $0.50

One-quarter Gross in a Cardboard Box; Twelve Gross in a Cardboard Case.

COMMON.

Wood, Natural Finish, Knob Formed at End.

Per Box of 5 Gross

No. 1—Length 4 in.; Weight per box about 20 lbs. $1.00

Five Gross in a Cardboard Case.

Per Case of 600

No. 30 C—Length 4 in.; Weight per case about 19 lbs. $1.20

Thirty in a Carton; Twenty Cartons in a Wood Case.

SKIRT BOARDS.

Poplar Wood, Natural Finish.

Nos.	5	5½	6
Length, feet	5	5	5
Width, inches	12½	12¾	14
Weight per dozen about	144	146	160
Per dozen	$11.00	12.50	15.00

One-half Dozen in a Crate.

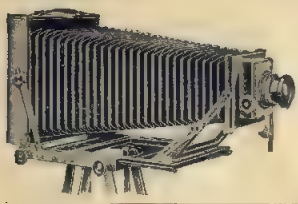
SLEEVE BOARDS.

GEM.

Basswood; Smooth Top Board 21 in. Long, Tapered from 4¼ to 2½ in., ⅜ in. Thick, with Double Braced Bottom Stand; Height over all 6½ in.

No. G—Weight per dozen about 33 lbs. ..Per Dozen $8.00

One Dozen in a Crate.

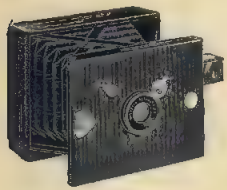


The "Express." No. 2972.

Stand or Tripod Field Cameras,

Mahogany Camera, well finished.
Real Leather Bellows.
Double Rack and Pinion.
Extra long Extension, with Extending and Swing Front.
Double Swing Back.
Rising and falling Front, and all other modern requirements.
Roller Blind Shutter behind Lens for time or instantaneous exposures.
Folding Ash Tripod.
Double Book Form Slide.

Complete Outfit, with different kinds of Lenses, etc	¼ Plate, 4¼ × 3¼ in	½ Plate, 6½ × 4¾ in.	1/1 Plate, 8¼ × 6½ in.
With Rapid Symmetrical Lens	£2 : 7 : 6	£2 : 17 : 6	£4 : 12 : 6
„ Aldis Anastigmat Lens	3 : 10 : 6	5 : 0 : 0	6 : 7 : 6
Extra, Double Sides, each	0 : 5 : 6	0 : 7 : 6	0 : 12 : 0
Flexible Canvas Case (extra)	0 : 2 : 9	0 : 3 : 9	0 : 5 : 6



The "Bantam." No 2973.

Vest Pocket Plate Camera.

For Plates 2½ × 1⅝ in. (6 × 4⅛ c/m.)

Weight 7½ oz. Size when folded, 3⅛ × 2¾ × ¾ in.

All Metal, Leather Covered.
Leather Bellows.
Suitable for Vertical or Horizontal Pictures.
Shutter gives time or 3 different instantaneous exposures.
Iris Diaphragm to Lens.
Three Metal Plate-holders and Focussing Screen, in Case

Price, with Rapid Achromatic Lens . . . . . £1 : 7 : 6
„ „ Anastigmat Lens . . . . . 2 : 2 : 0
„ „ Zeiss Tessar Lens . . . . . 5 : 5 : 0

The "Chic." No. 2974.

Vest Pocket Roll Film Camera.

Size of Pictures, 2¼ × 1½ in.

Weight about 8 oz. Size (closed), 4 × 2 × ¾ in.

All Metal, Leather Covered.
Leather Bellows.
Suitable for Vertical or Horizontal Pictures.
Shutter gives time or 3 different instantaneous exposures.
Iris Diaphragm to Lens.
Fitted for Roll Films.
"Ensignette" Spool for 6 Pictures (-/10).

Price, with Rapid Achromatic Lens . . . . . £1 : 7 : 6
„ „ Anastigmat Lens . . . . . 2 . 2 : 0
„ „ Zeiss Tessar Lens . . . . . 5 : 5 : 0
Daylight Enlarger, to enlarge Pictures to Post-card size (5½ × 3½) . . . . . 0 : 8 : 0 extra.

Contractors to the Home, Indian, and Colonial Governments.

Wire Rod Cutter.

No. 2981.

This is very well made and a great time saver. There is an adjustable gauge so that any number of pieces may be cut exactly the same length.

Will cut wire $\frac{5}{64}$ to $\frac{1}{4}$ in

Weight 10 lb.

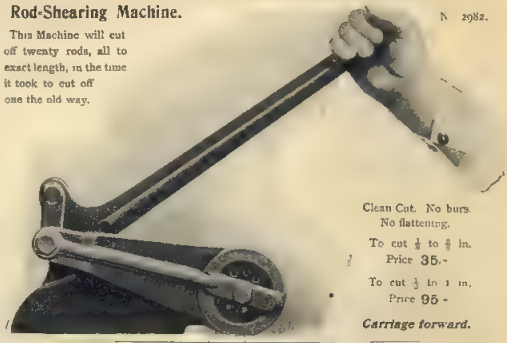
Price 25.-

Carriage forward.

Rod-Shearing Machine.

N 2982.

This Machine will cut off twenty rods, all to exact length, in the time it took to cut off one the old way.



Clean Cut. No burs. No flattening.

To cut $\frac{1}{8}$ to $\frac{3}{8}$ in. Price 35.-

To cut $\frac{1}{2}$ to 1 in. Price 95 -

Carriage forward.

Lever Shearing Machines.

No. 2983.

Very easily managed and practical tools for working plate, wire, flat and round iron, etc. Supplied with smoothly planed table. Ends of the knives free. Set-screws for setting the upper cut against the lower cut.

Size A is supplied with loose foot-plate so that it can be placed in a vice if desirable.

Sizes.	A	B	C
Length of blades ...	$3\frac{1}{2}$ in	$4\frac{1}{2}$ in.	$3\frac{1}{2}$ in
Will cut sheet-metal, thick	$\frac{1}{16}$ "	$\frac{1}{8}$ "	-
" " flat-iron, "	$\frac{1}{8}$ "	$\frac{3}{16}$ "	$\frac{1}{4}$ in
" " round iron, " . .	$\frac{1}{4}$ "	$\frac{1}{2}$ "	$\frac{1}{2}$ "
Approximate weight	22 lb.	55 lb.	73 lb.
Price	42/-	65 -	82'
Extra blades per pair	6/-	7 6	8 -

Hand Lever Shearing Machine.

No. 2984.

For cutting plates of any length and width.

This will cut plates, flats, rounds, squares, angles, and tees. Angles and tees can also be sheared on the bevel up to an angle of 45°.

The cropper blades can be readily changed for others, cutting joists, channels, or special sections. Only two of the nuts of the clips may be loosened, when the latter can be shifted sideways, slotted holes being provided for the purpose. The frame of the machine is formed by a heavy Siemens-Martin rolled steel plate.

Will shear plates up to ..		$\frac{1}{4}$ in.
" " flats " ...		$2 \times \frac{1}{2}$ "
Will crop without change of blade	Rounds up to	$\frac{3}{8}$ "
	Squares "	$\frac{5}{16}$ "
	Angles, square across ...	$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ "
	" on bevel to 45° ...	$1 \times 1 \times \frac{3}{8}$ "
Will shear tees, square across		$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ "
" " " on bevel to 45°.		$1 \times 1 \times \frac{1}{8}$ "

Weight 220 lb.

Length of shear blades $6\frac{3}{8}$ in.

Price complete, with one pair shear and cropper blades ... **£11 : 10 : 0**

Orders of 20/- and upwards Carriage Paid (with few exceptions).

GENTLEMEN'S FINE BLACK SILK UMBRELLAS

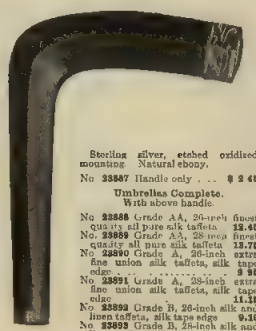
Patent Detachable and Interchangeable Handles. Simple, Reliable, Rigid. Fitted with Fine Silk Cord and Tassels.
Steel Rods, Fine Cases. Every Umbrella Guaranteed to Give Entire Satisfaction. Prices Each.

Gold filled, polished mountings Natural ebony

No. **23880** Handle only . . . . $ 2.45

Umbrellas Complete.
With above handle

No. **23881** Grade AA, 26-inch finest quality all pure silk taffeta . **12.45**
No. **23882** Grade AA, 28-inch finest quality all pure silk taffeta . **13.75**
No. **23883** Grade A, 26-inch extra fine union silk taffeta, silk tape edge **9 95**
No. **23884** Grade A, 28-inch extra fine union silk taffeta, silk tape edge. **11.15**
No. **23885** Grade B, 26-inch silk and linen taffeta, silk tape edge. **9.10**
No. **23886** Grade B, 28-inch silk and linen taffeta, silk tape edge **9.75**



Sterling silver, etched oxidised mounting Natural ebony.

No **23887** Handle only . . . $ 2 45

Umbrellas Complete.
With above handle

No **23888** Grade AA, 26-inch finest quality all pure silk taffeta . **12.45**
No **23889** Grade AA, 28-inch finest quality all pure silk taffeta **13.75**
No **23890** Grade A, 26-inch extra fine union silk taffeta, silk tape edge. **9 95**
No **23891** Grade A, 28-inch extra fine union silk taffeta, silk tape edge **11.15**
No **23892** Grade B, 26-inch silk and linen taffeta, silk tape edge **9.10**
No **23893** Grade B, 28-inch silk and linen taffeta, silk tape edge . **9.70**

Sterling silver, polished mounting, dark brown mission wood.

No **23894** Handle only $2.45

Umbrellas Complete
With above handle.

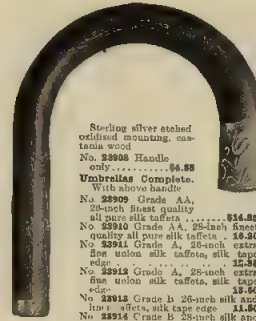
No **23895** Grade AA, 26-inch finest quality all pure silk taffeta **$12.45**
No **23896** Grade AA, 28-inch finest quality all pure silk taffeta . **13.75**
No **23897** Grade A, 26-inch extra fine union silk taffeta, silk tape edge **9.95**
No **23898** Grade A, 28-inch extra fine union silk taffeta, silk tape edge **11.15**
No **23899** Grade B, 26-inch silk and linen taffeta, silk tape edge **9.10**
No **23900** Grade B, 28-inch silk and linen taffeta, silk tape edge. **9.70**

Natural stag, gold filled, polished, chased mounting, snakewood shoulder

No. **23901** Handle only. . . . . $ 4.85

Umbrellas Complete.
With above handle

No **23902** Grade AA, 26-inch finest quality all pure silk taffeta. **14.85**
No **23903** Grade AA, 28-inch finest quality all pure silk taffeta . **16.30**
No **23904** Grade A, 26-inch extra fine union silk taffeta, silk tape edge. **12.85**
No. **23906** Grade A, 28-inch extra fine union silk taffeta, silk tape edge. **13.60**
No **23905** Grade B, 26-inch silk and linen taffeta, silk tape edge **11.50**
No **23907** Grade B, 28-inch silk and linen taffeta, silk tape edge **12.10**



Sterling silver etched oxidised mounting, castania wood

No. **23908** Handle only. **$4.85**

Umbrellas Complete.
With above handle

No. **23909** Grade AA, 26-inch finest quality all pure silk taffeta **$14.85**
No **23910** Grade AA, 28-inch finest quality all pure silk taffeta . **16.30**
No **23911** Grade A, 26-inch extra fine union silk taffeta, silk tape edge. **12.85**
No **23912** Grade A, 28-inch extra fine union silk taffeta, silk tape edge. **13.60**
No **23913** Grade B 26-inch silk and linen taffeta, silk tape edge **11.50**
No **23914** Grade B 28-inch silk and linen taffeta, silk tape edge **12.10**

Fine horn. Gold filled, polished chased mountings, partridge wood shoulder

No **23915** Handle only . . . . $ 4.85

Umbrellas Complete.
With above handle

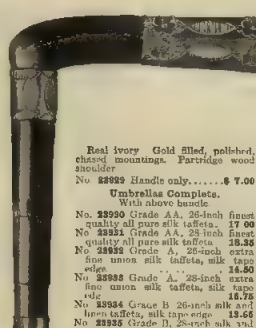
No. **23916** Grade AA, 26-inch finest quality all pure silk taffeta **14.85**
No. **23917** Grade AA, 28-inch finest quality all pure silk taffeta **16.30**
No **23918** Grade A, 26-inch extra fine union silk taffeta, silk tape edge **12.85**
No. **23919** Grade A, 28-inch extra fine union silk taffeta, silk tape edge **13.60**
No **23920** Grade B, 26-inch silk and linen taffeta, silk tape edge **11.50**
No. **23921** Grade B, 28-inch silk and linen taffeta, silk tape edge **12.10**

Natural stag, gold filled, polished, chased mountings, snakewood shoulder

No. **23922** Handle only. . . . . $ 7.00

Umbrellas Complete.
With above handle.

No **23923** Grade AA, 26-inch finest quality all pure silk taffeta . **17.00**
No **23924** Grade AA, 28-inch finest quality all pure silk taffeta. **18.35**
No **23925** Grade A, 26-inch extra fine union silk taffeta, silk tape edge. **14.80**
No **23926** Grade A, 28-inch extra fine union silk taffeta, silk tape edge. **15.75**
No **23927** Grade B, 26-inch silk and linen taffeta, silk tape edge **13.65**
No **23928** Grade B, 28-inch silk and linen taffeta, silk tape edge . **14.25**



Real ivory Gold filled, polished, chased mountings. Partridge wood shoulder

No. **23929** Handle only. . . . . $ 7.00

Umbrellas Complete.
With above handle

No. **23930** Grade AA, 26-inch finest quality all pure silk taffeta. **17 00**
No **23931** Grade AA, 28-inch finest quality all pure silk taffeta **18.35**
No **23932** Grade A, 26-inch extra fine union silk taffeta, silk tape edge **14.80**
No **23933** Grade A, 28-inch extra fine union silk taffeta, silk tape edge **15.75**
No **23934** Grade B 26-inch silk and linen taffeta, silk tape edge **13.65**
No **23935** Grade B, 28-inch silk and linen taffeta, silk tape edge **14.25**

Sterling silver, polished cap, engraved dark Pimento wood

No **23936** Handle only **$7.00**

Umbrellas complete.
With above handle

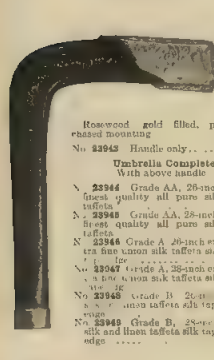
No **23937** Grade AA, 26-inch finest quality all pure silk taffeta **$17 00**
No **23938** Grade AA, 28-inch finest quality all pure silk taffeta . **18.35**
No **23939** Grade A, 26-inch extra fine union silk taffeta, silk tape edge **14.80**
No **23940** Grade A, 28-inch extra fine union silk taffeta, silk tape edge **15.75**
No **23941** Grade B, 26-inch silk and linen taffeta, silk tape edge **13.65**
No **23942** Grade B, 28-inch silk and linen taffeta, silk tape edge **14.25**

For Prices of Umbrella Bases Without Handles See Page 222

GENTLEMEN'S FINE BLACK SILK UMBRELLAS

Patent Detachable and Interchangeable Handles. Simple, Reliable, Rigid. Fitted with Fine Silk Cord and Tassels

Steel Rods, Fine Cases. Every Umbrella Guaranteed to Give Entire Satisfaction. Prices Each



Rosewood gold filled, polished, chased mounting

No 23943 Handle only $7.00

Umbrella Complete
With above handle

No 23944 Grade AA, 26-inch, finest quality all pure silk taffeta $17.00

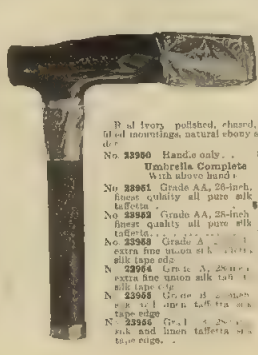
No 23948 Grade AA, 28-inch, finest quality all pure silk taffeta 18.35

No 23946 Grade A, 26-inch extra fine union silk taffeta silk tape edge 14.50

No 23947 Grade A, 28-inch extra fine union silk taffeta silk tape edge 15.75

No 23948 Grade B, 26-inch, silk and linen taffeta silk tape edge 13.65

No 23949 Grade B, 28-inch, silk and linen taffeta silk tape edge 14.25



Bird ivory, polished, chased, gold filled mountings, natural ebony shoulder

No 23950 Handle only $9.20

Umbrella Complete
With above handle

No 23951 Grade AA, 26-inch, finest quality all pure silk taffeta $19.30

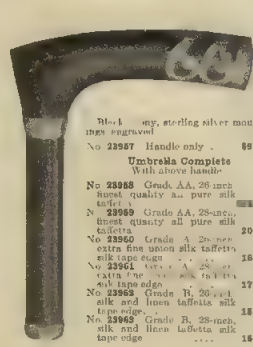
No 23953 Grade AA, 28-inch, finest quality all pure silk taffeta 20.50

No 23952 Grade A, 26-inch extra fine union silk taffeta silk tape edge 16.65

No 23954 Grade A, 28-inch extra fine union silk taffeta silk tape edge 17.95

No 23955 Grade B, 26-inch, silk and linen taffeta silk tape edge 15.85

No 23956 Grade B, 28-inch, silk and linen taffeta silk tape edge 16.45



Black ebony, sterling silver mountings engraved

No 23957 Handle only $6.20

Umbrella Complete
With above handle

No 23958 Grade AA, 26-inch, finest quality all pure silk taffeta $17.00

No 23959 Grade AA, 28-inch, finest quality all pure silk taffeta 20.60

No 23960 Grade A, 26-inch extra fine union silk taffeta silk tape edge 16.65

No 23961 Grade A, 28-inch extra fine union silk taffeta silk tape edge 17.95

No 23962 Grade B, 26-inch, silk and linen taffeta silk tape edge 15.85

No 23963 Grade B, 28-inch, silk and linen taffeta silk tape edge 16.45

Ivory, carved, gold filled polished, chased mounting, snakewood shoulder

No 23964 Handle only $13.65

Umbrella Complete
With above handle

No 23965 Grade AA, 26-inch, finest quality all pure silk taffeta $33.65

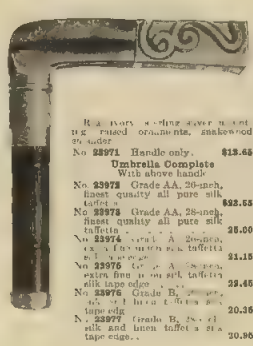
No 23966 Grade AA, 28-inch, finest quality all pure silk taffeta 35.00

No 23967 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 21.15

No 23968 Grade A, 28-inch, extra fine union silk taffeta silk tape edge 22.45

No 23969 Grade B, 26-inch, silk and linen taffeta silk tape edge 20.85

No 23970 Grade B, 28-inch, silk and linen taffeta silk tape edge 20.95



Bird ivory sterling silver mounting, chased ornaments, snakewood shoulder

No 23971 Handle only $13.65

Umbrella Complete
With above handle

No 23972 Grade AA, 26-inch, finest quality all pure silk taffeta $32.55

No 23973 Grade AA, 28-inch, finest quality all pure silk taffeta 35.00

No 23974 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 21.15

No 23975 Grade A, 28-inch, extra fine union silk taffeta silk tape edge 22.45

No 23976 Grade B, 26-inch, silk and linen taffeta silk tape edge 20.35

No 23977 Grade B, 28-inch, silk and linen taffeta silk tape edge 20.95

Gold filled, polished, chased, black ebony shoulder

No 23978 Handle only $13.65

Umbrella Complete
With above handle

No 23979 Grade AA, 26-inch, finest quality all pure silk taffeta $33.65

No 23980 Grade AA, 28-inch, finest quality all pure silk taffeta 35.00

No 23981 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 21.15

No 23982 Grade A, 28-inch, extra fine union silk taffeta silk tape edge 22.45

No 23983 Grade B, 26-inch, silk and linen taffeta silk tape edge 20.85

No 23984 Grade B, 28-inch, silk and linen taffeta silk tape edge 20.95

Gold filled, polished, chased, oriental pearl shoulder

No 23985 Handle only $15.60

Umbrella Complete
With above handle

No 23986 Grade AA, 26-inch, finest quality all pure silk taffeta $36.60

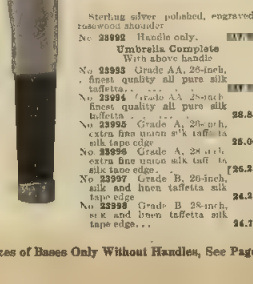
No 23987 Grade AA, 28-inch, finest quality all pure silk taffeta 36.95

No 23988 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 23.10

No 23989 Grade A, 28-inch, extra fine union silk taffeta silk tape edge 24.35

No 23990 Grade B, 26-inch, silk and linen taffeta silk tape edge 22.25

No 23991 Grade B, 28-inch, silk and linen taffeta silk tape edge 23.35



Sterling silver polished, engraved, rosewood shoulder

No 23992 Handle only $17.00

Umbrella Complete
With above handle

No 23993 Grade AA, 26-inch, finest quality all pure silk taffeta $37.00

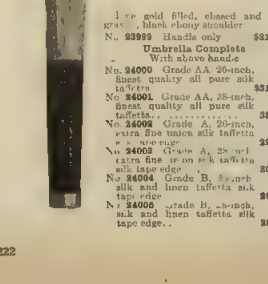
No 23994 Grade AA, 28-inch, finest quality all pure silk taffeta 38.35

No 23995 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 25.00

No 23996 Grade A, 28-inch, extra fine union silk taffeta silk tape edge $26.25

No 23997 Grade B, 26-inch, silk and linen taffeta silk tape edge 24.20

No 23998 Grade B, 28-inch, silk and linen taffeta silk tape edge 24.75



Fine gold filled, chased and engraved, black ebony shoulder

No 23999 Handle only $21.70

Umbrella Complete
With above handle

No 24000 Grade AA, 26-inch, finest quality all pure silk taffeta $31.70

No 24001 Grade AA, 28-inch, finest quality all pure silk taffeta 38.00

No 24002 Grade A, 26-inch, extra fine union silk taffeta silk tape edge 29.20

No 24003 Grade A, 28-inch, extra fine union silk taffeta silk tape edge 30.45

No 24004 Grade B, 26-inch, silk and linen taffeta silk tape edge 28.35

No 24005 Grade B, 28-inch, silk and linen taffeta silk tape edge 28.70

For Prices of Bases Only Without Handles, See Page 222

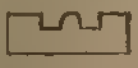
FANCY WOOD PLANES.

EACH PLANE CUTS ONLY ONE SIZE.

BEECHWOOD, PLAIN FINISH; Cutters Forged from Tool Steel, Tempered and Polished.

BEAD; SINGLE BOXED.

Nos.	37⅛	37⅜16	37¼	37⅝16
Size, in.	⅛	3/16	¼	5/16
Each	$0.50	.50	.50	.50
	.90	.90	.90	.90
Nos.	37⅜	37½	37⅝	
Size, inches	⅜	½	⅝	
Each	$0.50	.50	.55	
	.90	.90	1.00	



BEAD; DOUBLE BOXED CENTER.

Nos.	413⅜16	41¼	415⅝16
Size, inches	3/16	¼	5/16
Each	$0.60	.60	.60
	1.10	1.10	1.10
Nos.	413⅜	41½	
Size, inches	⅜	½	
Each	$0.60	.60	
	1.10	1.10	

REVERSE OGEE.

Nos.	62¾	62⅞	62/1
Size, inches	⅞	⅞	1
Each	$0.75	.75	.75
	1.40	1.40	1.40

ROMAN OGEE.

Reverse, with Fence.

Nos.	620¾	6201
Size, inches	⅞	1
Each	$0.90	.90
	1.70	1.70

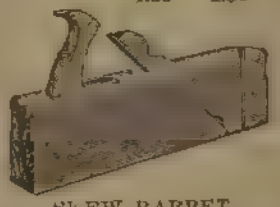
Packed Loose; Weight Each about 1 lb.

FANCY WOOD PLANES.

EACH PLANE CUTS ONLY ONE SIZE

SKEW RABBET.

Nos.	116¾	116/1	116/1¼
Size, inches	¾	1	1¼
Wgt. about, lbs.	1	1¾	1⅝
Each	$0.60	.60	.65
	1.10	1.10	1.20
Nos.	116/1½	116/1¾	116/2
Size, inches	1½	1¾	2
Wgt. abt., lbs.	1½	2	2
Each	$0.70	.80	.90
	1.30	1.50	1.70



SKEW RABBET.

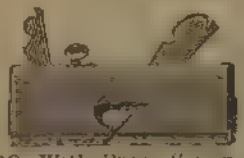
With Handle and Two Side Cutters. With Handle on Top.

Nos.	119, 1¼	119/2
Size, inches	1¼	2
Each	$1.70	1.70
	3.10	3.10

With Handle on Side.

Nos.	119H1¼	119H1¾	119H2
Size, in.	1¼	1¾	2
Each	$1.90	1.90	1.90
	3.50	3.50	3.50

Weight Each about 3 lbs.



DADO, With Brass Screw Top

Nos.	48⅜	48½	48⅝
Size, inches	⅜	½	⅝
Each	$1.00	1.70	1.10
	2.70	2.70	2.70
Nos.		48¾	48⅞
Size, inches		¾	⅞
Each		$1.70	1.50
		2.70	2.70

Weight Each about 1¼ lbs. Packed Loose.

FANCY WOOD PLANES.

EACH PLANE CUTS ONLY ONE SIZE.

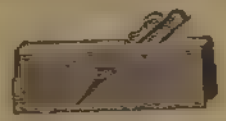
MATCH.

Nos.	75⅛	75⅜	75¾
Size, inches	⅛	⅜	¾
Each	$1.50	1.50	1.50
	2.70	2.70	2.70
Nos.	75⅞	75/1	
Size, inches	⅞	1	
Each	$1.50	1.50	
	2.70	2.70	

Weight Each about 2½ lbs.

FILLETSTER, With Cutter and Brass Side Stop

No. 53—Size 1¼ in. Weight each about 3 lbs. .....Each, $1.40 $2.60



NOSING PLANES

Nos.	91⅛	91⅜	91/1
Size inches	⅛	⅜	1
Each	$1.10	1.10	1.10
	2.00	2.00	2.00
Nos.	91 1⅛	91 1¼	91/1¼
Size inches	1⅛	1¼	1¼
Each	$1.10	1.10	1.20
	2.00	2.00	2.20

Weight Each about 1½ lbs.

TOOTH.

No. 30F—Size 2⅛ in.; Weight each about 1½ lbs.....Each, $1.00 $1.80

Packed Loose.

FANCY WOOD PLANES.

EACH PLANE CUTS ONLY ONE SIZE.

Hollow Plane.

Round Plane.

BEECHWOOD, PLAIN FINISH; Cutters Forged from Tool Steel, Tempered and Polished; Average Length 6½ in.

In ordering half pairs of Hollows and Rounds, be careful to give number of Plane, and whether Hollow or Round. For instance, if a Plane as per above cuts is wanted, say "one No. 72 ⅜ HOLLOW, or one No. 72 ⅜ ROUND," and thus avoid confusion.

HOLLOWS AND ROUNDS.

Nos.	72⅜	72½	72⅝	72¾
Size, inches	⅜	½	⅝	¾
Weight per pair about, lbs.	1¼	1½	1¾	2
Per pair	$1.00	1.00	1.00	1.00
	1.80	1.80	1.80	1.80
Nos.	72⅞	72/1	72/1⅛	72/1¼
Size, inches	⅞	1	1⅛	1¼
Weight per pair about, lbs.	2¼	2½	2¾	3
Per pair	$1.00	1.15	1.15	1.15
	1.80	2.10	2.10	2.10

Per Set

No. 72FS—SETS OF 9 PAIRS, ASSORTED, from ⅜ to 1¼ in.; Weight per set about 16 lbs.....$9.45 $17.10

Packed Loose.

FANCY WOOD PLANES.

BEECHWOOD, PLAIN FINISH; Cutters Forged from Tool Steel, Tempered and Polished. Average Length 9½ in.

PANEL PLOW.

No. 95F—With 8 Cutters, One each, ⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝ in.....Each, $5.50 $9.90

PANEL PLOW.

Each

No. 96½—Handled, with 8 Cutters, One each, ⅛, 3/16, ¼, ⅝, 7/16, ½, ⅝ in.....$6.50 $11.70

No. 97—Handled, Box Fence with 8 Cutters, One each, 1/8, ¼, 5/16, ⅜, 7/16, ½ in..... 6.85 12.40

Packed Loose; Weight Each about 3½ lbs.

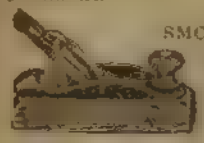
By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date, and hold your trade at home.

ADJUSTABLE PLANES.

KEEN KUTTER* WOOD BOTTOM.

KEEN KUTTER Planes are Packed One in a Cardboard Box.

SELECTED AND SEASONED BEECHWOOD BOTTOMS; Knobs and Handles, Finely Varnished; Cast Iron Frames Enameled Black, Full Polished Caps; CUTTERS ARE EXTRA HEAVY, which prevents "Chattering" when used on very hard wood or knots; Made of Highest Grade Crucible Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE; Finest Screw and Lever Adjustment.



SMOOTH, WOOD BOTTOM.

Nos.	K23	K24
Length, inches	7	8
Size of Cutter, inches	1	2
Weight each about, lbs.	1	1¼
Each	$1.80	1.80

HANDLED SMOOTH, WOOD BOTTOM

Nos.	K35	K36
Length, inches	7	8
Size of Cutter	2	2⅛
Wgt. each about, lbs.	3	3½
Each	$2.30	2.60

WOOD BOTTOM.

Nos.	K26	K27	K28	K29
Style	JACK	JACK	FORE	FORE
Length, inches	11	14	18	22
Size of Cutter, in.	2	2⅛	2⅜	2⅜
Wgt. each, abt. lbs.	6½	8	6¾	8½
Each	$1.90	2.30	2.60	2.60

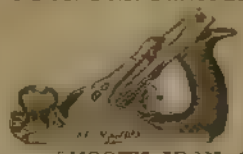
Nos.	K30	K31	K32	K33
Style	JOINTER	JOINTER	JOINTER	JOINTER
Length, inches	22	24	26	28
Size of Cutter, in.	2⅜	2⅜	2⅜	2⅜
Wgt. ea. abt. lbs.	7	7½	8	8½
Each	$2.70	2.80	2.90	2.90

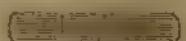
One in a Cardboard Box

ADJUSTABLE PLANES.

KEEN KUTTER*; IRON.

FINELY ENAMELED CAST IRON FRAMES; Bottoms Perfectly True and Smooth; Finely Varnished Rosewood Handles and Knobs; Full Polished Caps; CUTTERS ARE EXTRA HEAVY, which prevents "Chattering" when used on very hard wood or knots; Made of Highest Grade Crucible Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE; Finest Screw and Lever Adjustments.





Corrugated Bottom.

SMOOTH IRON, SMOOTH BOTTOM.

Nos.	K2	K3	K4	K4½
Length, in.	7	8	9	9
Size of Cutter, in.	1¾	1¾	2	2⅜
Weight each about, lbs.	3	3½	3¾	4
Each	$2.70	2.70	2.90	3.50

IRON, CORRUGATED BOTTOM.

Nos.	K2C	K3C	K4C	K4½C
Length, in.	7	8	9	9
Size of Cutter, in.	1¾	1¾	2	2⅜
Weight each about, lbs.	3	3½	3¾	4
Each	$2.70	2.70	2.90	3.50

SMOOTH IRON SMOOTH BOTTOM.

Nos.	K5	K5½	K6	K7	K8
Style	JACK	JACK	FORE	JOINTER	JOINTER
Length, in.	14	15	18	22	24
Size of Cutter, in.	2	2⅜	2⅜	2⅜	2⅜
Wgt. abt. lbs.	4½	5	7	7½	9¼
Each	$3.50	3.50	4.40	4.80	5.80

IRON, CORRUGATED BOTTOM.

Nos.	K5C	K5½C	K6C	K7C	K8C
Style	JACK	JACK	FORE	JOINTER	JOINTER
Length, in.	14	15	18	22	24
Size Cutter, in.	2	2⅜	2⅜	2⅜	2⅜
Wgt. abt. lbs.	4½	5	7	7½	9¼
Each	$3.50	3.50	4.40	4.80	5.80

One in a Cardboard Box.

KEEN KUTTER* IRON BENCH PLANES

The Handle having the proper angle and grip for the fingers—no cramping of the finger muscles. Long continued use does not tire the hand. The adjustment of Cutter and Cap is so made as to prevent "Shaving Choking"; Substantial, Heavy.

IRON BLOCK PLANES.

KEEN KUTTER*

FINELY ENAMELED CAST IRON FRAMES and Caps; Bottoms Perfectly True and Smooth; Varnished Rosewood Handles, Corrugated for Easy Grip; Crucible Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND; READY FOR USE; Finest Screw and Lever Adjustments

With Screw, Lever and Throat Adjustments; Size of Cutter 1⅝ in.

Each

No. K9½—LENGTH 6 IN. . . $1.40

No. K13—LENGTH 7 IN. . . 1.50

Weight each about 1½ lbs.

KNUCKLE JOINT

With Screw, Lever and Throat Adjustments Nickel Plated Trimmings; Size of Cutter 1⅝ in.

Each

No. K18—LENGTH 6 IN.; Weight each about 1⅝ lbs. $1.60

No. K19—LENGTH 7 IN.; Weight each about 1½ lbs. 1.70

With Lever Adjustment. Size of Cutter 1⅝ in.

No. K120—LENGTH 7½ IN. Wgt. each about 1⅝ lbs. . . Each, $0.90

NOT ADJUSTABLE. Size of Cutter 1⅝ in.

No. K102—LENGTH 5½ IN. Wgt. each about 1 lb. . . . Each, $0.60

With Screw, Lever and Throat Adjustments; Rosewood Handle; Size of Cutter 1⅝ in.

Each

No. K9¾—LENGTH 6 IN.; Weight each about 1⅝ lbs. . . $1.60

One in a Cardboard Box.

NOT ADJUSTABLE. Size of Cutter 1⅝ in.

No. K110—LENGTH 7½ IN.; Wgt. each about 1½ lbs. . . Each $0.70

One in a Cardboard Box.

With Lever Adjustment; Size of Cutter 1⅝ in.

No. K103—LENGTH 5½ IN.; Wgt. each about 1 lb. . . . . Each, $0.70

One in a Cardboard Box.

CORK PULLERS

YANKEE

Per Dozen

No. 2—Iron Frame, Steel Wearing Parts, Full Nickel Plated $3.00

A short up and down movement of the handle draws the cork and automatically discharges it. Corks may be drawn as desired entirely out or simply part way. The handle never moves back over counter to occupy valuable space.

Weight Per Dozen 49 Pounds

One-twelfth Dozen in a Pasteboard Box. One Dozen in a Case

FAVORITE

Per Dozen

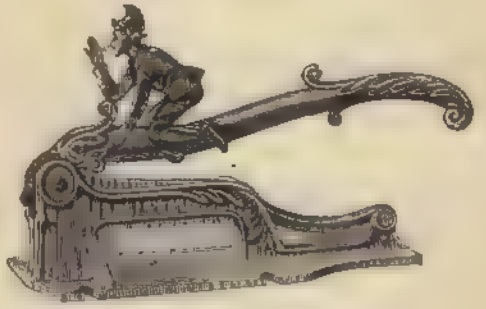
No. 1—Iron Frame, Steel Working Parts, Full Nickel Plated. Projects Only 3 in. Above the Counter $5.00

Will remove crown seals as well as pull corks. The bottle is held firmly in the center by a slight pressure on the lever at the left of the bottle. All working parts are below the counter.

Weight Per Dozen 45 Pounds

One-twelfth Dozen in a Wooden Box. One-half Dozen in a Case

TOBACCO CUTTERS



Per Dozen

No. 2—Steel Cutter, Iron Frame, Japanned, with Image $12 00

Weight Per Dozen 60 Pounds

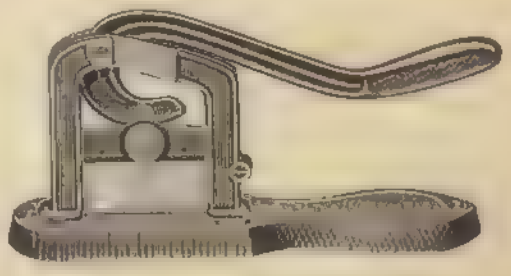
One Dozen in a Box

Each

No. 1—Erie, Iron Frame, Japanned and Gold Striped, Tempered Steel Cutter, Opening 4 in. Wide, 11 in. High, Nickel Plated Name Plate $2.00

Weight Per Dozen 80 Pounds

One Dozen in a Box



Each

No. 4—Standard, Iron Frame, Japanned and Gold Striped, Tempered Steel Cutter, Opening 4½ in. Wide 14½ in. High $1 50

Weight Per Dozen 84 Pounds

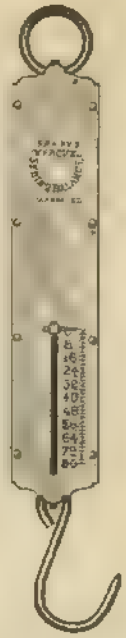
One-half Dozen in a Box

SPRING BALANCES

Light, Brass Face, Plain Figures, Japanned Case, Tinned Ring and Hook

Nos.	3	51
Capacity, Lbs	25 by ½	50 by 1
Wt. Dozen, Lbs	2	4
Per Dozen	$1 50	3 00

No. 3, One Dozen; No. 51, One-half Dozen in a Box



Heavy, Extra Quality, Brass Face, Plain Figures, Japanned Case, Tinned Ring and Hook

Nos.	86	87	88
Cap'y, Lbs.	80 by 1	100 by 1	125 by 1
Wt Dz., Lbs.	30	33	37
Each	$2 30	3.50	4.00

One-quarter Dozen in a Box

IRON CLAD ICE BALANCES

Nickel Plated Brass Face, Black Japanned and Ornamented Malleable Iron Case, Heavy Tinned Steel Hook and Ring.

Nos.	420	402	403
Cap'y, Lbs	200 by 2	200 by 5	300 by 5
Each	$4.50	4 00	5.00

Average Wt. Per Dozen 48 Pounds
One-twelfth Dozen in a Box

WITH DISH

Straight, Brass Face, Round Tin Dish, Tinned Ring and Hook

	Per Dozen
No. 52R—Capacity 25 Pounds by ½ Pound	$4.00
	4 50

Weight Per Dozen 11 Pounds

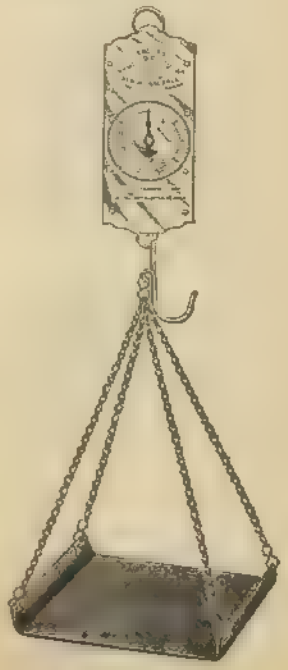
One-half Dozen in a Box

No 52R

Circular, Brass Face, Square Tin Dish, Tinned Ring and Hook

Nos	126	127
Capacity	30 lbs. by 1 oz.	60 lbs. by 2 oz.
Weight Each, Lbs	6	7
Each	$6.25	7.50
	5.50	7 00

One in a Box



Nos 126 and 127

New "Art Process" Lettered Pennants

MADE TO ORDER

Standard Quality Felt, close firm weave in bright colors, viz.: Red, green, yellow, purple, blue, orange and white.

The lettering is made by our new art process, vastly superior, more attractive and richer in appearance than the old style press print. It brings out the letters in a life-like manner, sightly and rich. All the styles and grades we list are correct, up-to-date, of the best quality and workmanship in the different grades possible to offer at the prices.

Orders for more than one style shall be treated as separate orders.

These prices do not include canes.

Pennant Style, No. 1, choice of any color felt, with art process lettering in any one color, with satin ribbon heading and ties

Size	per 100	per 300	per 500	per 1000
4x12	3.50	6.00	10.50	19.50
6x16	4.00	7.50	12.00	22.50
7x21	4.50	9.75	17.00	30.00

Pennant Style No. 2, same as Style No. 1, but with felt heading and double felt ties. Will make this pennant with lettering in any one color or with lettering and a design; like, landscape picture or baseball player or summer girl, etc., in one color, no extra charge for the design.

Size	per 100	per 300	per 500	per 1000
9x18	6.00	12.50	21.00	40.00
9x24	6.50	14.50	23.50	46.00
12x30	9.75	21.50	33.75	66.00
15x36	12.00	29.00	46.00	90.00

Pennant Style No. 4 is same as style No. 2, but with the design executed in more than one color, but the lettering is in one color only. We will reproduce any fraternal or college emblem or picture of any subject or any special design wanted and guarantee the color work to be as fine and attractive as any offered in the market.

Size	per 100	per 300	per 500	per 1000
7x21	8.50	13.25	22.50	40.00
9x18	8.00	16.00	26.50	50.00
9x24	8.50	18.00	29.00	56.00
12x30	11.75	25.00	39.25	76.00
15x36	14.00	32.50	51.50	100.00

Pennants With Sewed-on Letters

MADE TO ORDER

Pennant Style No. 5. Choice of any color of fine quality felt with letters of contrasting color sewed on. Prices are on words up to 12 letters. Note On size 7x24, we require an order for 2 dozen. Other sizes for not less than one dozen at these prices.

Size	Per Doz.
7x24	.80
9x30	1.60
12x30	1.95
15x36	2.25
18x36	2.50

Pennant Style No. 7. This is the same style as No. 5, but made of very fine grade of felt

Size	Per Doz.
7x24	1.10
9x30	1.90
12x30	2.50
12x36	3.25
15x36	3.75
18x36	4.25
18x48	6.50

Pennant Style No 8. Lodge Pennants made on the order of above, of finest grade felt with sewed on felt letters and sewed on felt design in colors. We can furnish any Lodge emblem, but no orders filed for less than one dozen of one kind

Size 15x36 per dozen..... 6.50

Directions for Ordering Pennants

Please observe in ordering Pennants the following which are important details for us to have in your first order. The kind of color of felt wanted and the color of letters wanted. Write very plainly the lettering wanted. It is best for you to write the words in print and if possible sketch of the pennant desired, otherwise we shall use our own judgment. On orders for special design pennants, please send design with the order. On pennants made to order we require 10 days' time, so anticipate your wants as early as possible to give us ample time to execute the work properly in all details.

On all work of this class made to order, we require a deposit of at least half the amount of the order.

Pennant Canes

We have in stock canes especially suitable to use for Pennants. These are cleanly finished goods and we quote them at a very low price.

Per 1,000..... 9.00

Souvenir Pennants in Stock

Souvenir Pennants, size 9x24 in., made of good quality felt, choice of all standard colors, lettered "Souvenir," "Souvenir Street Fair," "Souvenir State Fair"

Per 100..... 5.50

Per 1,000..... 50.00

‡FENCE POSTS.

No 1A No 1B. No 2A. No 2B. No 3A No 3B. No 4A. No 4B

Made of Tubular Steel, Top and Base of Cast Iron; Painted Black

		Each
No 1A—1 ⅜ in., with Acorn Top; Base 26 in.; Wgt. each abt 21 lbs		$1.50
No 1B—1 ⅜ in., with Ball Top; Base 26 in.; Wgt. each abt 21 lbs		1.80
No 2A—2 in., with Acorn Top; Base 30 in.; Wgt. each abt. 31 lbs		2.10
No. 2B—2 in., with Ball Top; Base 30 in.; Wgt. each abt. 31 lbs		2.70
No 3A—2 ½ in., with Acorn Top; Base 30 in.; Wgt. each abt. 44 lbs		4.00
No 3B—2 ½ in., with Ball Top; Base 30 in.; Wgt. each abt. 44 lbs		4.00
No 4A—4 in., with Acorn Top; Base 24 in.; Wgt. each abt. 26 lbs.		2.70
No 4B—4 in., with Ball Top; Base 24 in.; Wgt. each abt 26 lbs		2.70

Packed Loose

When ordering Extra Fence Posts, specify Height of Fabric they are to be used with

Posts shown are Standard Size 48 in. in Height. Can be made any Length desired

EXTRA CHARGE FOR LENGTHS LONGER THAN 48 IN.

Nos.	1A	1B	2A	2B	3A	3B	4A	4B
Per inch	$0.03	.03	.04	.04	.05	.05	.07½	.07½

‡EXTRA PARTS OF FENCING POSTS AND GATES.

No. 16 No 17 No. 18 No 20 No. 21 No 22 No 25

No 31 No 33

No 26 No 23 No 24 No 26 No 27 No 29 No. 30 No 32 No 34

All Parts Black Finished, Except when Otherwise Specified

	Each
No 15—2 ½ in., Ball Top; Weight each about 64 oz.	$0.38
No 16—2 in., Ball Top; Weight each about 48 oz.	.32
No 19—2 ½ in., Acorn Top; Weight each about 64 oz.	.38
No 20—2 in., Acorn Top; Weight each about 48 oz.	.32
No 21—1 ⅝ in., Acorn Top; Weight each about 46 oz.	.30
No 22—1 ⅝ in., Acorn Top, Weight each about 40 oz.	.26
No 23—1 ⅝ in., Ball Top Double Line Post; Weight each 64 oz.	.44
No 24—1 ⅝ in., Acorn Top Double Line Post; Weight each 64 oz.	.44
No. 25—Ball Top Line Post, 1 ⅝x1 ⅝ in., for Rail with Cable. Weight each about 64 oz.	.44
No. 26—Acorn Top Line Post, 1 ⅝x1 ⅝ in., for Rail with Cable. Weight each about 64 oz.	.41
No 27—Acorn Top Line Post, 1 ⅝x1 ⅝ in., for Rail with Cable; Weight each about 64 oz.	.50
No 28—Acorn Top Line Post, 1 ⅝x1 ⅝ in., for Rail without Cable; Weight each about 64 oz.	.38
No. 29—1 ⅝ in. Iron with Wrought Iron Post; Weight each about 32 oz.	.26
No. 30—2 in. Iron with Wrought Iron Post; Weight each about 40 oz.	.32
No. 32—Single Gate Post; Weight each 12 oz.	.20
No. 34—Double Gate Post; Weight each about 12 oz.	.22
No. 35—Gate Post, Single Gate, Wrought Iron Post; Weight each 36 oz.	.26
No. 36—Gate Stop Double Line; Weight each about 192 oz.	.78

Packed Loose

‡Goods marked (thus ‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡EXTRA PARTS OF FENCING POSTS AND GATES.

MALLEABLE IRON

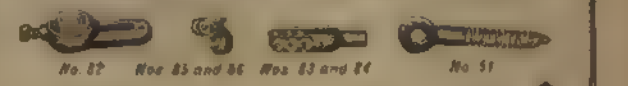
Nos 60 and 61 Nos. 62 and 63 No. 58 No 57 Nos 64 and 65

Nos. 70 and 71 Nos 58 and 59 Nos 60 and 61 Nos 62 and 63 Nos 64 and 65

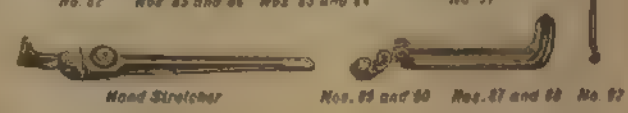
No 74

Nos 66 and 67 Nos 68 and 69 Nos 72 and 73 Nos 75 and 76

Nos 77 and 78 No 79 No 80 No 81



No. 82 Nos 85 and 86 Nos 83 and 84 No 51



Hood Stretcher Nos. 89 and 90 Nos. 87 and 88 No. 92

	Weight each, Ounces	Each
No 50—[illegible]	7	$0.20
[illegible]	6	.16
[illegible]	8	.26
[illegible]	8	.20
[illegible]	10	.32
No 55—[illegible]	9	.26
No. 56—[illegible]	½	.14
No. 57—Bail for Gate	2	.14
No 58—2 in. 3-Way Post Band	6	.18
[illegible]	5	.12
[illegible]	6	.16
[illegible]	5	.14
No [illegible] 3-Way Post Band	6	.20
No [illegible] 3-Way Post Band	5	.14
[illegible]	8	.20
[illegible]	7	.16
[illegible]	8	.16
[illegible]	5	.14
[illegible]	8	.20
[illegible]	7	.18
[illegible]	10	.24
[illegible]	9	.20
[illegible] Top Gate Hinge Band	10	.28
[illegible]		.30
[illegible] Adjustable Iron Post Hinge Band	8	.20
[illegible]	1	.07
[illegible]	5	.14
[illegible]	8	.18
No [illegible] Iron Post Gate Catch Band	10	.26
No [illegible] Iron Post Gate Catch Band	8	.20
No 5—Adjustable [illegible]	3	.14
No 56—Adjustable Post Gate Catch	4	.14
No 61—Gate Stop for Post	4	.14
No 62—Iron Ball Spring Gate	5	.14
No 63—Adjustable Gate Lock	8	.26
No 64—Iron Latch for Gate Lock	10	.32
No 65—Iron Adjustable Gate Lock Band	3	.14
No 66—Iron Adjustable Gate Lock Band	5	.18
No 67—Adjustable Double Gate Lock	28	.44
No 68—Adjustable Double Gate Lock	29	.50
No 69—Iron Adjustable Double Gate Lock Band	4	.14
No 70—Iron Adjustable Single Gate Lock Band	5	.16
No. 71—Wrought Iron Screw Ring	3	.14
No 72—Gate Spring	32	.32
No 73—Gate Spring, with Nickel Plated Handle	18	.60

Packed Loose.

‡Goods marked (thus ‡) are not carried in stock and can only be furnished by shipment direct from factory.

WIRE STRETCHERS.

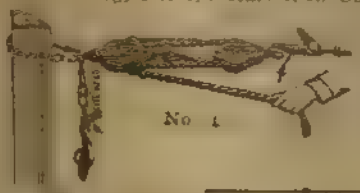
DILLON'S.

SINGLE JACK HOIST AND WIRE STRETCHER

For Woven Wire Fences; The Most Powerful Wire Stretcher on the Market. Has a Pulling Capacity of 5,000 lbs., which enables it to Pull up 50 Rods of Fence at a Stretch. Corrugated Clamp which Prevents Fence from Slipping or Buckling. All Wires are Pulled up evenly; Can also be used for many other Purposes around the Farm, such as Pulling Stumps, Pulling Pipes from Wells and Stringing up Beeves.

No. D—Malleable Iron Jack or Block, with Handle Attached, 1¼ ft. Long; No. 8S Proof Coil Chain, 5/16 in., Length 8¼ ft., Hardwood Clamp 5 ft. High. Weight per dozen about 504 lbs.....Per Dozen, $104.00

Steel Frame and Sheaves, Malleable Iron Hooks and Eccentrics; 16 ft. of ¾ in Sisal Rope; Post Fastening 29 in. Long, No. 3, 0 American Chain



Per Dozen

No. T—PLAIN BEARING TACKLE BLOCK; Painted Vermilion $14.50

No. 4

Per Dozen

No. RBT—ROLLER BEARING TACKLE BLOCK, Painted Blue $16.00

Sheaves Roller Bearing sheave.

Packed Loose, Weight per Dozen about 54 lbs

TOWNSEND PATTERN

With this implement the person stretching the Wire can nail it to the post from which he is stretching without assistance. Always place the End of Lever against Post.

To repair a Break in a Fence, turn the Short End of the Broken Wire around the Post and Fasten. Then to the other end Tie a Piece Long Enough to Close the Gap, Draw it Up and Fasten, and when done it is a Good Tight Job.

No. TM—Hardwood Handle or Lever, Natural Color, 3 ft. Long, with Polished Malleable Iron Pincers and Steel Grip attached; Complete with 3 Link Wrought Chain, Weight per doz. about 45 lbs..Per dozen, $15.00

Three Dozen in a Case

No. R—ROUND BAR; Wrought Iron Handle and Bar, Steel Springs and Iron Castings; Aluminum Bronze Finish; Length of Handle 12¾ in., Weight per dozen about 88 lbs..Per Doz., $13.00

Three Dozen in a Case

ELLWOOD'S LEVER, WITH ROD EXTENSION.

Per Dozen

Ellwood's Lever Double Ratchet, Wrought Iron Handle and Bar, Iron Castings; Aluminum Bronze Finish. Length of Handle 14 in. Wgt. per dozen about 64 lbs $13.00

Extra Eccentric, Ellwood's 1.50

Eccentrics are Interchangeable and can be Used on Nos. R and T Stretchers as Well as Ellwood's.

Three Dozen in a Case

Our Business is to Serve.
TRY US.
Send us a Letter Order

STAPLE PULLERS.

KEEN KUTTER*

Forged from Highest Grade Crucible Steel, Oil Tempered; Polished Head and Jaws and Tips of Handles, Dead Black Finish Handles with Knurled Grip, Heads Milled, Length of Head 2⅜ in.; Length over all 10¼ in.

No. K2000—KEEN KUTTER*; Combination Staple Puller, Driver, Wire Cutter, Splicer and Bolt Grip; Weight per dozen about 24 lbs..... .....Per Dozen, $18.50

One-twelfth Dozen in a Wood Box.

OAK LEAF*

Forged from High Grade Tool Steel, Tempered; Polished and Nickel Plated; Length of Head 2¼ in.; Length over all 9¾ in.

No. E10—OAK LEAF*; Combination Staple Puller Driver, Wire Cutter, Splicer and Bolt Grip; Weight per dozen about 20 lbs.....Per Dozen $15.00

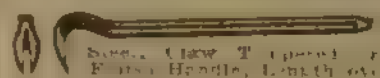
One-quarter Dozen in a Cardboard Box.

BAY STATE*.

Forged from Tool Steel, Tempered; Polished Jaws; Natural Finish Handles and Head Length of Head 2¾ in.; Length over all 10 in.

No. B1800—BAY STATE*; Staple Puller and Driver, Wire Cutter and Splicer; Weight per dozen about 20 lbs. .....Per Dozen, $12.00

One-half Dozen in a Cardboard Box



No. M—Forged from 10 Octagon Tool Steel, Claw Tempered, Polished Steel, Natural Finish Handle, Length over all 9¾ in. Weight per dozen about 7 lbs.....Per Dozen, $4.80

One-half Dozen in a Cardboard Box

WIRE FENCE STAPLES.

Bessemer Steel; No 9 Wire

Cuts Full Size.

Bright.

Inches	⅝	1	1⅛	1¼	1⅜	1½
Number to a lb	270	198	96	84	72	64
Per Keg	$					

Galvanized.

Inches	⅝	1	1⅛	1¼	1⅜	1½
Number to a lb	270	198	96	84	72	64
Per Keg	$					

100 lbs. in a Keg

It takes on an Average about Two Pounds of Fence Staples to Put Up a Reel of Barbed Wire; To Put Up Woven Wire Fencing, One Staple for every Horizontal Wire at each Post; One Pound of 1¼ in. Staples is Approximately Sufficient to Construct 12 Rods of an Eight Bar Wire Fence with Posts Sixteen feet apart.

By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date and hold your trade at home

*Goods marked thus (*) are not carried in stock and can only be furnished by shipment direct from factory

FILE CLEANERS.

Hardwood Back and Handle, Varnished; Hardened Steel Wire Brush on One Side only, attached to Leather Face; Length of Face 4¾ in.; Width 1½ in.; Length of Wires ¾ in.; Length over all 10 in., Steel Scraper 4 in. Long, ⅛ in. Wide at Point, accompanies each Cleaner.

Per Dozen

No. 1—Weight per dozen about 4 lbs.....$4.10

One-half Dozen in a Cardboard Box.

Hardwood Frame and Handle, Varnished; Hardened Steel Wire Brush on One Side, attached to Leather Face; Black Bristle Brush on Reverse Side, inserted in Frame; Length of Faces 4¾ in.; Width 1¼ in.; Length of Wires ¾ in., Length of Bristles ⅝ in.; Length over all 10 in.; Steel Scraper 4 in. Long, ⅛ in. Wide at Point, accompanies each Cleaner.

Per Dozen

No. 3—Weight per dozen about 5 lbs.....$7.70

One-half Dozen in a Cardboard Box.

HAND VISES.

KEEN KUTTER*

Head, Shank and Jaws Forged from Highest Grade Crucible Steel, FULL POLISHED; Faces of Jaws Hardened and Scored, Equipped with Double Steel Screw, Geared Together so that Jaws are Parallel at any Position; Jaws Adjusted by Large Polished Steel Wing Nut; Bit Stock Shank so that Vise can be used in a Brace; Hardwood Handle, Rosewood Finish, 6 in. Long, with Nickel Plated Brass Ferrule; Handle and Ferrule Pruned through Shank with a Removable Pin which can be driven out when Vise is to be used in a Brace; Jaws 1¼ in. Wide and open 15/16 in.; Length of Vise and Shank 5¼ in.; Length over all, with Handle, 7 in.

Per Dozen

No. K40—KEEN KUTTER*; Weight per dozen about 9 lbs.....$23.00

One-half Dozen in a Cardboard Box.

STANDARD.

Forged Steel, Natural Finish Head, Polish d Hardened Jaws, Hardwood Handle, Natural Finish, Varnished, 3¾ in. Long; Brass Ferrule at Top; Jaws work on Parallel Lines, Adjusted by Wing Nut; Width of Jaws 1¼ in., Open ⅝ in.; Length over all 6¼ in.

Per Dozen

No. 540—Weight per dozen about 6 lbs.$10.00

One-half Dozen in a Cardboard Box.

ALFORD'S.

Forged Steel Nickel Plated Head, Jaws Double Acting Reverse Threaded Screw, and Cross-Bar; Hollow Polished Cocobolo Handle 4¾ in. Long, with Screw Head; Containing two Awls, two Chisels, one Reamer and one Screw Driver Bit, all Polished Steel 1¾ in. Long; also one Washer Cutter Head, with Adjustable Steel Points; Handle is Interchangeable with a Nickel Plated Steel Bit Shank, both Screwing into Head at Bottom or either side as desired.

Per Dozen

No. 1—WITH TOOLS; 1¼ in. Checkered and Hardened Jaws. Length over all 7 in.; Weight per dozen about 12 lbs.....$42.00

One-twelfth Dozen in a Cardboard Box.

STANDARD.

Black Enameled Malleable Iron Hinged Jaws; Checkered Face; Polished Head; Adjusted by Steel Bolt, with Wing Nut, Steel Spring between Jaws.

WITH 4¼ IN. BLACK ENAMELED HARDWOOD HANDLE.

Nos.	1443½	1444
Length, inches	3½	4
Width of Jaws, inches	1-1/16	1¼
Weight per dozen about, lbs	6	7
Per dozen	$7.50	8.00

One-half Dozen in a Cardboard Box.

HAND VISES.

STANDARD.

Black Enameled Malleable Iron Hinged Jaws; Checkered Face; Polished Head; Adjusted by Steel Bolt, with Wing Nut, Steel Spring between Jaws.

WITHOUT HANDLE.

Nos.	1403½	1404
Length, inches	3½	4
Width of Jaws, inches	1-1/16	1¼
Weight per dozen about, lbs	3	3
Per dozen	$5.40	5.90

VISES.

BONNEY'S.

No. 4B.

With Anvil; Clamp to Bench; Cast Iron, Japanned, with Polished Jaws and Anvil Face; Polished Steel Screw and Sliding Lever Handle.

No. 3B.

Per Dozen

No. 1B—With Plain Clamp Screw, Plain Jaws; WIDTH OF JAWS 1½ IN.; Jaws Open 2¼ in.; Length, Closed, 4¾ in.; Weight per dozen about 15 lbs.....$6.40

No. 2B—With Plain Clamp Screw, Plain Jaws; WIDTH OF JAWS 2 IN.; Jaws Open 2½ in.; Length, Closed, 5¾ in.; Weight per dozen about 19 lbs.....9.00

No. 3B—WITH BUTTON End Clamp Screw; WIDTH OF JAWS 3¼ IN.; Jaws Open 3¼ in.; Length, Closed, 6 in., With Patent Swivel Jaw Attachment; Weight per dozen about 30 lbs.....23.00

No. 4B—WITH LARGE BUTTON End, Clamp Screw, Plain Jaws; WIDTH OF JAWS 2⅝ IN.; Jaws Open 3¼ in.; Length, Closed, 7⅛ in., Weight per dozen about 50 lbs.....24.00

No. 7B—WITH LARGE BUTTON End Clamp Screw, Plain Jaws, WIDTH OF JAWS 2⅝ IN., Jaws Open 3¼ in.; Length, Closed, 7¼ in.; With Patent Swivel Attachment; Weight per dozen about 54 lbs.....35.00

Packed Loose.

Mounted on Stand 16¼ in. High, 10 in. Wide, 18 in. Long; Stand has Japanned Cast Iron Sides or Leg Pieces, Cast Iron Top Plate and Two Hardwood Cross Pieces or Shelves.

Per Set

No. BVS — BONNEY VISES, in Sets, 3 only No. 1B, 4 only No. 2B, 2 only No. 3B, 2 only 4B and 1 only No. 7B. Weight per set complete about 42 lbs..$18.00

No. 7B Vises are the same size and description as No. 4B, except with Steel Faced Jaws and Swivel Attachment.

One Set in a Wood Box.

WILCOX WOODWORKERS' RAPID ACTING.

To Set Flush with Bench; Two Cold Rolled Steel Slide Guides; Steel Screw working between, Phosphor Bronze Nut which engages Entire Circumference of Screw and Operates Entire Length, No Pawls, Racks or Triggers to break or wear. The Nut is released and completely disengaged when pressure on work is removed by a slight reverse movement of the Handle, and Vise can be moved Backward or Forward without using Screw; No Stripping or Cutting of Threads; When pressure is applied, it causes the Nut to engage and lock on the Screw more firmly, and is not held in position by any external mechanism. Screw is Cut with Single Thread, 4 to an inch, with sharp pitch; Jaws are of best gray Iron, with Working Surfaces Ground and Finished; Polished Hardwood Sliding Handle.

Each

No. W7—JAWS 7 IN. WIDE, 4 in. Deep, Open 10 in.; 1 in. Screw; Weight each about 23½ lbs.....$7.50

No. W10—JAWS 10 IN. WIDE, 5 in. Deep, Open 12 in.; 1 in. Screw; Weight each about 39½ lbs.....8.50

Packed Loose.

VISES.

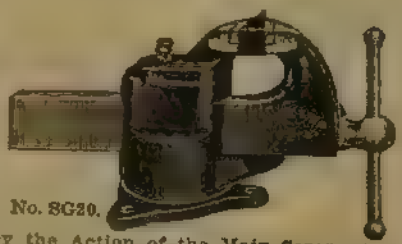
SIMMONS SURE GRIP.

Special Alloy Cast Iron Frame, Lacquered Dull Black; Polished Sliding Bar; Cold Rolled Steel Screw and Handle; Handle Polished; Crucible Tool Steel Jaws Carefully Hardened and Polished; Malleable Iron Nut; These Vises are Heavy and the Material is well distributed; all Vital Points reinforced.

No. SG4.

MACHINISTS' AUTOMATIC SWIVEL.

Body of Vise Rotates on Milled Iron Column, forming part of Base Plate, and the Rotation is Stopped Automatically when the work is Fastened in the Jaws. This Tightening is accomplished by the Friction of a Malleable Iron Nut Tightened against the Base Column by the Action of the Main Screw, Automatically, when the Jaws are Tightened up. There are No Extra Screw Levers or Pins to break or wear out. A Mechanic will do 20 per cent more work on account of this Automatic Swivel Lock, as the entire Adjustment is by means of the Lever Handle in Front. The Lines of Construction of Sure Grip Vises are Graceful and Strong, not a pound of Material is wasted.



No. SG20.

WITH PARALLEL JAWS.

Nos.	‡SG1	‡SG2	SG3	SG4	SG5
Width of Jaws, inches	1⅞	2½	3	3½	4
Jaws Open, inches	2	2⅞	4	6	6
Length, Closed, in.	8⅞	10½	13	15	17½
Weight each about, lbs.	5	6	20	33	56
Each	$6.00	8.50	12.00	15.00	18.50

Nos.	SG6	‡SG7	‡SG8	‡SG9
Width of Jaw, inches	4⅝	5¼	6	7
Jaws Open, inches	8	9	11	12
Length, Closed, in.	20¾	24⅞	27½	30½
Weight each about, lbs.	75	120	146	220
Each	$20.00	28.00	40.00	50.00

WITH SELF-ADJUSTING REAR JAW; MAY BE MADE STATIONARY BY INSERTING A PIN.

Nos.	SG20	SG21	SG22	‡SG23	‡SG24	‡SG25
Width of Jaw, in.	3⅛	4	4⅝	5½	6	7
Jaws Open, in.	5	6	8	9	11	12
Length Closed, in.	15¼	17½	21¾	25⅞	27½	30
Wgt each, abt., lbs.	44	66	85	135	156	233
Each	$16.00	19.00	26.00	32.00	42.00	60.00

MACHINISTS' SWIVEL BASE; SELF-ADJUSTING JAWS.

Nos.	SG50	SG51
Width of Jaws, inches	3½	4
Jaws Open, inches	5	6½
Length Closed in	15½	18
Weight each about, lbs.	37	53
Each	$13.00	15.50

Nos.	‡SG52	‡SG53	‡SG54	‡SG55	‡SG56
Width of Jaws, inches.	4½	5	5½	6	7
Jaws Open, inches.	7	7½	8½	11	12
Length, Closed, inches.	21¼	23	24½	28	28½
Weight each about, lbs.	78	95	125	158	220
Each	$17.50	23.00	31.00	35.00	48.00

Packed Loose.

VISES.

SIMMONS SURE GRIP.

Special Alloy Cast Iron Frame, Lacquered Dull Black; Polished Sliding Bar; Cold Rolled Steel Screw and Handle; Handle Polished; Crucible Tool Steel Jaws, Carefully Hardened and Polished; Malleable Iron Nut; These Vises are Heavy and the Material is well distributed; All Vital Points Re-inforced.

MACHINISTS'.

SWIVEL BASE.

Nos.	SG71	SG72	SG73	SG74
Width of Jaws, inches	3	3½	4	4½
Jaws open, inches	4	6	6	6½
Length, closed, inches	13	15	16½	18½
Weight each about, lbs.	28	38	54	65
Each	$8.50	9.50	12.00	13.00

Nos.	SG75	‡SG76	‡SG77	‡SG78
Width of Jaws, inches	5	5½	6	7
Jaws open, inches	7⅛	8½	10	12
Length, closed, inches	21	23½	28	31½
Weight each about, lbs.	90	129	168	248
Each	$17.00	20.00	29.00	38.00

STATIONARY BASE.

Nos.	SG91	SG92	SG93	SG94
Width of Jaws, inches	3	3½	4	4½
Jaws open, inches	4	5	6	6½
Length, closed, inches.	13	15	16½	18½
Weight each about, lbs.	23	33	42	54
Each	$6.40	8.00	9.50	11.00

Nos.	SG95	‡SG96	‡SG97	‡SG98
Width of Jaws, inches.	5	5½	6	7
Jaws open, inches.	7⅛	8½	10	12
Length, closed, inches.	21	23½	28	31½
Weight each about, lbs.	75	101	135	210
Each	$15.00	18.50	25.00	29.00

‡STATIONARY BASE; SELF ADJUSTING JAWS.

Nos.	‡SG81	‡SG82
Width of Jaws, in.	4½	4
Jaws open, inches	6	6½
Length closed, inches	15½	18
Wgt. each about, lbs.	37	60
Each	$9.50	13.00

Nos.	‡SG83	‡SG84	‡SG85
Width of Jaws, inches	4⅝	5¼	6
Jaws open, inches	7⅛	8½	11
Length closed, inches	23	24½	28
Weight each about, lbs.	68	95	147
Each	$15.00	19.00	25.00

COMBINATION PIPE.

Japanned Malleable Iron Frame; Swivel Base, Polished Steel Jaws with Checkered Face; Polished Steel Slide and Handle; Supplementary Toothed Pipe Jaws.

Nos.	SG23½	SG34½
Width Jaws, in.	3½	4¼
Jaws open, in.	4½	5
Holds Pipe, in.	⅛ to 2	⅛ to 3
Length closed, inches	16½	18
Weight each about, lbs.	55	73
Each	$12.00	15.00

The Steel Faced Jaws of these Vises are Milled and Fitted to the Jaws, and are Renewable at a trifling Cost.

STANDARD. STATIONARY BASE.

Cast Iron Frame, Lacquered; Polished Sliding Bar; Polished Cold Rolled Steel Screw and Handle; Hardened and Polished Tool Steel Jaws, Provided with an Anvil with Polished Face; Furnished with Center Bolt and Washer for Fastening to Bench.

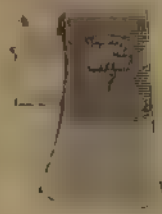
Nos.	351	352	353
Width Jaws, in.	2½	3	3½
Jaws open, inches	3	3½	4
Length, closed, inches	10	11½	12½
Weight each about, lbs.	1	1½	1¾
Each	$3.90	4.30	4.80

Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

FREIGHTERS' AXES.

Soft Steel Body, Hardened Poll; with 32 in. Oval Hickory Handle FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



KEEN KUTTER*

Yankee Pattern, Gold Bronzed, with Polished Head and Highest Grade Crucible Forged Steel Polished Bit, Extra Tempered, Extra Quality Handle; KEEN KUTTER Trade Mark Design Etched in Deep

Per Dozen

No. K1X8—Weight of head 3 lbs. $20.50

One doz. in a Case; Weight per doz about 55 lbs.

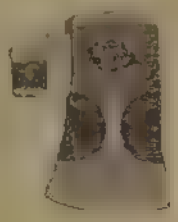
OAK LEAF*

Yankee Pattern, Hollow Bevel; Body Painted Red, Blue Bevels Special Crucible Forged Steel Tempered and Polished Bit; No. 1 Quality Handle

Per Dozen

No. 1 87—Weight of Head 3 lbs...$17.00

One-half doz. in a Crate; Heads Enclosed, Handles Projecting and Burlapped; Weight per doz. about 50 lbs



BOYS' AXES.

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Bit, Extra Tempered, with Extra Quality 28 in. Oval Hickory Handle FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle; KEEN KUTTER Trade Mark Design Etched in Deep

KEEN KUTTER*

Yankee Pattern, Gold Bronzed Body; Polished Head and Bit.

Per Dozen

No. K1B1—Weight of Head 2¾ lbs.$15.00

One-half doz. in a Crate; Heads Enclosed, Handles Projecting and Burlapped; Weight per doz. about 45 lbs

Yankee Pattern, Full Polished, with Painted Red Hollow Bevels.

Per Dozen

No. K1B2—Weight of Head 2¾ lbs $16.00

One-half doz. in a Crate; Heads Enclosed, Handles Projecting and Burlapped; Weight per doz about 45 lbs

OAK LEAF*

Soft Steel Body, Hardened Poll; Special Crucible Steel Bit, Carefully Tempered; with No. 1 Quality 28 in. Oval Hickory Handle, FASTENED WITH OUR SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle.

Yankee Pattern; Hollow Bevel; Body Painted Red, Blue Bevels, Polished Bit.

Per Dozen

No. 1523—Weight of Head 2¼ lbs...$13.00

One-half doz. in a Crate, Heads Enclosed, Handles Projecting and Burlapped; Weight per doz. about 42 lbs.

CUMBERLAND*.

Yankee Pattern; Soft Steel Body, with Crucible Forged Steel Bit; Body Painted Red, Polished Bit; Handled with No. 1 Quality 28 in. Oval Hickory Handle

Per Dozen

No. 97 Weight of Head 2¼ lbs...$13.00

BAY STATE*.

Yankee Patern, New Process Converted Steel, Hardened Gold Bronzed Body; Polished Bit; Handled with No. 2 Quality 28 in. Oval Hickory Handle.

Per Dozen

No. B2—Weight of Head 2¼ lbs...$12.00

KELLY'S FALLS CITY.

Per Dozen

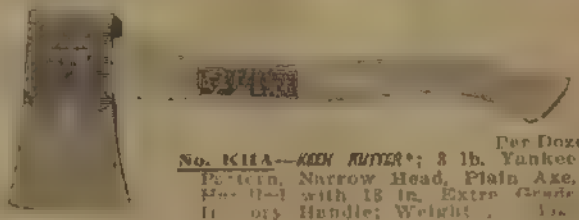
No. 80 KELLY'S FALLS CITY Yankee Pattern Hollow Bevel, Soft Steel Body; Hardened Poll, Crucible Forged Steel and Tempered Bit Body Painted Red, Blue Bevels; Polished Bit.....$14.00

One-half doz. in a Crate, Heads Enclosed, Handles Projecting and Burlapped; Weight per doz. about: No. 95, 4 lbs.; Nos. 82 and 89, 40 lbs

HOUSE AXES.

KEEN KUTTER*.

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Bit HAND TEMPERED; GOLD BRONZED WITH POLISHED HEAD AND BIT; KEEN KUTTER Trade Mark Design Etched in Deep; Handled and Wedged with our SIMMONS Patent Wedge.



Per Dozen

No. K11A—KEEN KUTTER*; 3 lb. Yankee Pattern, Narrow Head, Plain Axe, Poll Head with 18 in. Extra Grade Hickory Handle; Weight per doz. on about 60 lbs.... $18.00

One-half Dozen in a Wood Box

BROAD AXES.

KEEN KUTTER*—"BOB TAYLOR" CANADA PATTERN.

Soft Steel Body; Hardened Poll; Highest Grade Crucible Forged Steel Laid Bit, Hand Tempered and Tested; Black Finish; Polished Head and Bit. Each Axe has the "Timber Spring" so that the Cutting Edge will Bite into the Wood; The Eye is made Large and Broad, giving a Large Bearing Surface to the Handle; The Eye is also set down close to the Blade, thereby giving better control of the Blade; The Blade is Narrow in Proportion to its Length and the Corners are nearly Perpendicular to the Cutting Edge, saving Weight and Properly Distributing It.

			Per Dozen
Nos.	K1T67	K1T78	K1T89
Weights, Assorted, lbs.	6 to 7	7 to 8	8 to 9
Width of Cutting Edge, inches	10 to 11	12	13 to 18
Weight per doz. about, lbs.	90	100	120
Per dozen	$80.00	$60.00	$84.00

One-half Dozen in a Wood Box

KEEN KUTTER*

Soft Steel Body; Hardened Poll, Highest Grade Crucible Forged Steel Laid Bit, Hand Tempered and Tested; Gold Bronzed Body; Polished Head and Bit.

PITTSBURG PATTERN.

No.	KP67
Weights Assort'd, lbs.	6 to 7
Width of Cutting Edge, inches	11 to 12
Wgt. doz. about, lbs.	90
P	$ 60.00
N	K1T78
Weights Assort'd, lbs.	7 to 8
Width of Cutting Edge, inches	12 to 13
Wgt. doz. about, lbs.	102
Per dozen	$52.00

One-half Dozen in a Wood Box.

OAK LEAF*

CANADA PATTERN.

Soft Steel Body; Hardened Poll; Special Crucible Forged Steel Laid Bit, Carefully Tempered; Black Finish, Polished Head and Bit.

No.	KC 67
Weights Assort'd, lbs.	6 to 7
Width of Cutting Edge, inches	10½ to 11½
Wgt. doz. abt., lbs.	90
Per dozen	$52.00
No.	KC 78
Weights Assort'd, lbs.	7 to 8.
Width of Cutting Edge, inches	11½ to 12½
Wgt. doz. abt., lbs.	102
Per dozen	$54.00
No.	KC 89
Weights Assort'd, lbs.	8 to 9
Width of Cutting Edge, inches	12½ to 13½
Weight per dozen about, lbs.	114
Per dozen	$56.00

One-Half Dozen in a Wood Box

BROAD AXES.

OAK LEAF*

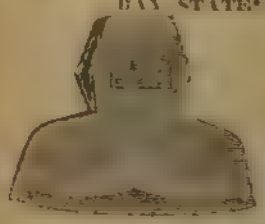
Soft Steel Body; Hardened Poll; Special Crucible Forged Steel Bit, Carefully Tempered; Black Finish; Polished Head and Bit.

PITTSBURG PATTERN.

No.	BPBT
Weights Asst'd. lbs.	6 to 7
Width of Cutting Edge, inches	11 to 12
Wgt. doz. abt., lbs.	90
Per dozen	$44.00
No.	BPTS
Weights Asst'd. lbs.	7 to 8
Width of Cutting Edge inches	12 to 13
Wgt. doz. abt. lbs.	103
Per dozen	$46.00

BAY STATE* CANADA PATTERN

Forged Tool Steel, Hardened Poll, Tempered Bit; Gold Bronzed Body, Polished Bit; NOT GUARANTEED.



No.	BBC 78
Weights, Asst'd, lbs.	7 to 8
Width of Cutting Edge inches	11 to 12
Wgt. doz. about, lbs	110
Per dozen	$38.00

PEXTON—CANADA PATTERN

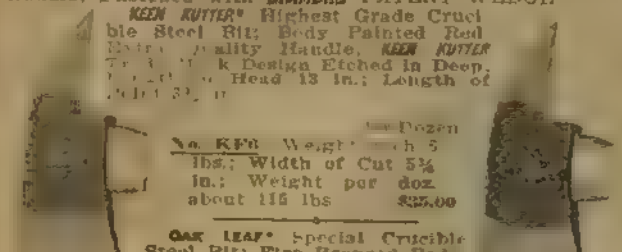
Soft Steel Body; Crucible Forged Steel Bit; Painted Black, with Polished Head and Bit.

No.	BC 78
Weights Asst'd. lbs.	7 to 8
Width of Cutting Edge, inches	11 to 12
Wgt. doz. abt., lbs.	110
Per dozen	$43.00 $38.50
No.	BC 80
Weights Asst'd. lbs.	8 to 9
Width of Cutting Edge inches	12 to 13
Wgt. doz. abt., lbs.	132
Per dozen	$45.00 $38.50

One Dozen in a Wood Box

FIREMEN'S AXES.

Soft Steel Body; Forged Polished Bit and Pick Point, Carefully Tempered; Handled with 36 in. Oval Hickory Handle; Fastened with SIMMONS PATENT WEDGE



KEEN KUTTER* Highest Grade Crucible Steel Bit; Body Painted Red, Extra Quality Handle, KEEN KUTTER Trade Mark Design Etched in Deep, Head 13 in.; Length of

Per Dozen

No. KF6 Weight each 5 lbs.; Width of Cut 5¼ in.; Weight per doz. about 115 lbs $25.00

OAK LEAF* Special Crucible Steel Bit; Fire Bronzed Body with Excelsior Quality Han[illegible] Length of Bit 5 in. Length of Point 4½ in.

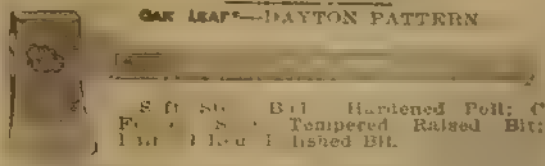
No. KF6.

No. EF6—Weight each 6 lbs.; Width of Cut 5¼ in.; Weight per dozen about 115 lbs .....Per Dozen $31.00

One Dozen in a Wood Box

COAL AXES.

OAK LEAF*—DAYTON PATTERN



Soft Steel Body; Hardened Poll; Crucible Forged Steel, Tempered Raised Bit; Body Painted, Polished Bit.

No. E1200ZZ—With No. SC 2 Medium Quality, 28 in. Oval Straight Handles.		
Weights Assorted, lbs.	3 to 4	3½ to 4½
Weight per Dozen about, lbs.	50	65
Per dozen	[illegible]	[illegible]
No. E1200YY—With No. SC 2 Medium Quality, 35 in. Oval Straight Handles		
Weights Assorted, lbs.	3 to 4	3½ to 4½
Weight per Dozen about, lbs.	[illegible]	[illegible]
Per dozen	$19.50	26.00

One Dozen in [illegible]

SHIP AXES.

KEEN KUTTER*

Soft Steel Body, Highest Grade Crucible Forged Steel Polished Bit, Carefully Tempered, Hardened Poll; Gold Bronzed Body, with Polished Head; Not Handled.

Per Dozen

No. K1S—Assorted 5 to 6 lbs., Length, Poll to Bit, Assorted, 10 to 11 in., Width of Cut, Assorted, 6 to 6½ in. Weight per dozen about 75 lbs... $45.50

One-half Dozen in a Wood Box

ADZES.

KEEN KUTTER*

HOUSE CARPENTERS', HALF HEAD.

Soft Steel Body; Highest Grade Crucible Forged Steel Bit, Extra Tempered; Steel Faced Head, Gold Bronzed Body; Polished Head and Bit; Solid Punched Eye.

KEEN KUTTER*—CARPENTERS'.

No.	KC 3½	KC 4
Width of Cut, in.	[illegible]	[illegible]
Length, in.	[illegible]	[illegible]
Weight per doz. about, lbs.	48	5[illegible]
Per dozen	$32.00	$32.00
No.	KC 4½	
Width of Cut, in.	[illegible]	
Length, in.	[illegible]	
Weight per doz. about, lbs.	[illegible]	
Per dozen	$32.00	

One doz. in a Wood Box.

KEEN KUTTER BLACK JACK*.

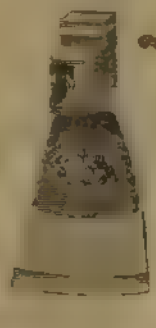
CARPENTERS.

Soft Steel Body; Highest Grade Crucible Forged Steel Bit, Extra Tempered; Polished Steel Faced Head Black Finish Body, Polished Bit, Solid Punched Eye.

Per Dozen

No. KJC4—HALF HEAD; Width of Cut 4 in.; Length over all 9 in. Weight per dozen about 50 lbs....$32.00

One doz. in a Wood Box.



Soft Steel Body; Special Forged Crucible Steel Polished Bit, Carefully Tempered; Steel Faced Polished Head, Gold Bronzed Body, Solid Punched Eye.

OAK LEAF*—CARPENTERS' —HALF HEAD.

No.	EC 3½	EC 4
Width of Cut, in.	[illegible]	[illegible]
Length, in.	[illegible]	[illegible]
Weight per doz. about, lbs.	[illegible]	[illegible]
Per dozen	$28.00	28.00
No.	EC 4½	
Width of Cut, in.	[illegible]	
Length, in.	[illegible]	
Weight per doz. about, lbs.	[illegible]	
Per dozen	$28.00	

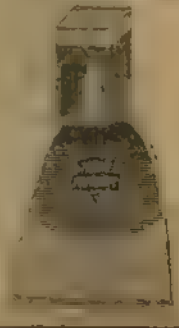
One doz. in a Wood Box

BARTON'S—CARPENTERS—HALF HEAD

Per Dozen

No. BC 4[illegible]—Soft Steel Body, Painted Blue; Crucible [illegible] Polished Bit; Width of Cut 4 to 4½ in.; Length 9½ in. [illegible] about 54 lbs..... $42.80

One-half doz. in a Wood Box.



RAILROAD, FLAT HEAD

Soft Steel Body; Highest [illegible] Crucible Forged Steel Bit, [illegible] Tempered Steel Faced Head; Gold [illegible] Body, Polished Head and Bit; [illegible] Punched Eye.

KEEN KUTTER*—RAILROAD.

Per Dozen

No. KR5 [illegible] Length [illegible] Weight per doz. about 60 lbs. $32.00

One doz. in a Wood Box.

FISHERMEN AND HUNTERS HEAD LAMPS

Star

NOTE.—These Lamps are Especially Adapted to the Uses of Hunters and Fishermen. The Reflectors Throw a Very Strong Light that Penetrates to a Great Distance, Making them Invaluable for Coon and Deer Hunting and for Night Fishing and Spearing. Also Suitable for Use in Coal Mines. They Use Ordinary Kerosene Oil, are Adjustable to any Size Head and are Light and Comfortable to Carry

STAR Per Dozen

No. S1—All Bright Tin, Concave Semi-circular Reflector; Two Removable Round Tube Tin Burners, Using Cotton Rope Wicking; Size 7¾ inches Wide, 7¾ inches High; Weight per Dozen 7 lbs..... **$8 40**

One Dozen in a Carton

SAMBO Per Dozen

No. S2—All Bright Tin; Hood Reflector with Mirror Back; One Adjustable Brass Burner, Using Flat Cotton Wick, Coppered Steel Wire Carrying Handle, Size 8½ inches Wide 11 inches High, Weight per Dozen 9 lbs. **$17 60**

Loose

Sambo

Twelfth Dozen in a Box

COLUMBIA JACK LAMP AND GENERATOR

For Hunters, Fishermen, Miners and Sportsmen

Throws a Powerful White Light. Invaluable for Hunting Coon Possum and other Nocturnal Animals.

Per Dozen Sets

No. C3—Generator 5½ in. Long, 2 in. in Diameter; Weight 16 ozs. (Carbide capacity enough to run the Lamp 5½ hours.) Made of Brass. Gun Metal Finish, attaches to any width Cartridge Belt up to 2 in Headlight, Weight 6 oz. powerful Parabolic Reflector, Diameter of Face 2¾ in.; Stmps to Front of Hat and is connected to Generator by Rubber Tubing; Weight complete per Doz. 25 lbs. **$132.00**

FROG LANTERNS

***NORLEIGH DIAMOND**

Burns Signal Oil

Heavy IX AA Quality Redipped Charcoal Tin; No. 1 Long Cone Brass Burner with ⅝ inch Wick Inserted; Bright Tin Hood, 9 inches Diameter, 6 inches Deep with 5 inch Silvered Glass Reflector No. 0 Clear Glass Globe.

Per Dozen

No. C—Height 15 in.; Diameter of Base 7 in.; Heavy Wire Bail 5 in. High; Heavy Tin Bossed Handle; Oil Capacity Sufficient for 24 Hours' Use; Weight per Dozen 64 lbs. **$30.80**

Half Dozen in a Case

MOSQUITO AND FLY ANTIDOTES

WOOD'S IMPROVED LOLLACAPOP

The Greatest Known Antidote for Mosquitoes, Black Flies and Gnats, in Paste Form Per Dozen Boxes

Wood's Lollacapop, Weight per Dozen 2 lbs ... **$5.00**

In Tin Boxes, One Dozen Boxes in a Carton

BITE-NO-MORE

Bite-No-More is a Lotion, to be Applied to the Face, Neck and Hands. It Dries Immediately, Forming an Invisible Coating on the Skin, Through which Insects will not Attempt to Bite See that the Remedy is Applied to Every Part. If a Spot is Left Uncovered, They Will Soon Find it.

Fishing Tackle, Guns, Scientific Instruments, Clothing etc., can be Handled Without Greasing or Soiling Them, Because Bite-No-More Dries at Once.

It will not Stain Nor Injure Clothing. It will not Injure nor Irritate the Most Delicate Skin. The Odor is Pleasant. It will Keep Indefinitely in any Climate. It Washes off Readily. Three or Four Applications will Protect a Person a Half Day.

Directions, To Keep Off Insects.—Pour a Few Drops into the Palm of the Hand, then Rub Well Over the Parts to be Protected. Repeat this Two or Three Times, Until a Good Coating is Formed. After this First Thorough Application a Very Little will be Sufficient to Renew it

Per Dozen

Bite-No-More—In ½ ounce Vials... **$2 00**

Three Dozen in a Display Box

Weight per Dozen 1 lb.

FISHING TACKLE SIGNS

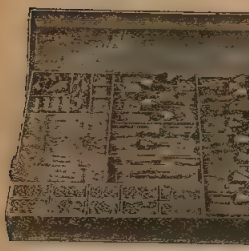
* DIAMOND

Each

No. DFS—Heavy Stamped Tin, Finished with a Heavy Coat of Gold Bronze; the Words "Diamond Tackle" Lettered in Black; Both Sides of Sign are Stamped Out of a Sheet of Tin and Soldered Together, Giving it the Exact Shape of the Living Fish; Rings Soldered in Back, so Sign Can be Suspended in any Convenient Place. This Sign Should be Hung in Front of Every Dealer's Store in Fishing Tackle. It is Appropriate and Helps to Increase Business. Size 24 inches Long by 10½ inches Through Widest Part; Weight 1¾ lbs $5 50

Loose

FISHING TACKLE ASSORTMENTS



* TRIUMPH

A Most Convenient and Complete Fishing Tackle Assortment, Which will Help the Retailer Very Materially in Supplying the Demands of the Trade. Assortment Consists of good Quality Cotton Lines, Floats, Sinkers, Fish Hooks and Enameled Lines. This Assortment is Gotten up for the Retail Dealer Whose Trade is Limited to Staple Items of Fishing Tackle.

CONTENTS

100 Hooks No. CB22.
100 Hooks No. CB25.
100 Hooks No. K1.
100 Hooks No. K2.
100 Hooks No. K7.
100 Hooks No. K9.
100 Hooks No. K2/0.
100 Hooks No. K4/0.
100 Hooks No. KC2/0.
100 Hooks No. KC3/0.
1 Dozen Sinkers No. BB.
1 Dozen Sinkers No. C1.
1 Dozen Sinkers No. C2.
1 Dozen Sinkers No. C3.
6 Dozen Lines No. E1.
2 Dozen Lines No. E3.
1 Dozen Lines No. S615.
1 Dozen Lines No. S315.
1 Dozen Furnished Lines No. 100.
3 Dozen Furnished Lines No. 200.
½ Dozen Furnished Lines No. 500.
½ Dozen Furnished Lines No. 600.
1 Ball 2 oz. Staging.
½ Dozen Floats No. W1¼.
½ Dozen Floats No. WAB3½.

Triumph Fishing Tackle Assortment, in Black Cloth Covered Cardboard Boxes. Size 17½ x 19¼ x 2¾ inches. Weight Each 7½ lbs. ..... Each $11.00

SPORTSMENS ENCYCLOPEDIAS

A Combined Complete Outdoor or Sportsmen's Library. By Col. F. H. Buzzacott

Contains 544 Pages, 856 Illustrations, 114 Full Page Illustrations

A Complete Sportsmen's and Outdoor Lovers' Encyclopedia of Surprising Facts and Instruction; Contains Facts and Forty Years' Startling Experiences and Instruction in the Ways of Famous Hunters, Scouts, Guides, Explorers, etc.

Each

Sportsmen's Encyclopedia—The Complete Works of Col. F. H. Buzzacott; Bound in Cloth and Gold; Size 7x8x3 inches; Weight 20 ozs. $1.90

WATER WINGS

AYVAD

These Wings Will Support a Man or 230 lbs. as Easily as a Boy at 50 lbs. The Reason That it Take Less Air to Support a Large Body, Than a Smaller One; and Being Porous, They Allow Just Enough Air to Escape to Adjust Themselves Properly to the Size of the Body to be Floated. To Use, Wet the Wings Thoroughly, Inflate Until the Air Bubbles from the Seams. Then Press Together the Two Ring Marks Under the Mouth Piece, the Body and the Water Will do the Rest. Weight Each 3 oz. Size 12 x 24 inches. Per Dozen

No. WW1—Plain White, Good Quality $4 80

No. WW2—Assorted Colors, Extra Quality 6 60

One Dozen in a Package. Weight per Dozen 1¼ lbs.

"DIAMOND EDGE IS A QUALITY PLEDGE"

BATHING SUITS

*DIAMOND BRAND

NOTE—Specify Sizes when Ordering

No. 80B

Nos. 150M and 300M

Nos. 100M, 125M and 250M

BOYS, ONE PIECE, SLEEVELESS

Per Dozen

No. 80B—Good Heavy Cotton. Button on Shoulder. Trimmed Arm Holes and Bottom of Pants, Sizes 24 to 34 inches. Color Navy Blue, Assorted Trimmings. Half Red and Half White to the Box. Weight per Dozen 6 lbs. $12 10

Half Dozen in a Box

MENS, ONE PIECE, SLEEVELESS

Per Dozen

No. 150M—Good Heavy Cotton, Striped. Button on Shoulder, Sewed On Shirt. Sizes 34 to 46 inches. Color Navy Blue, Assorted Stripes, Half Red and Half White to the Box; Stripes are 2½ inches Wide with Five ½-inch Stripe of Navy Blue in Center. Weight per Dozen 10 lbs. $30 80

Half Dozen in a Box

No. 300M—Good Grade Wool, Striped. Button on Shoulder, Sewed On Shirt. Sizes 34 to 46 inches. Bottom of Shirt and Pants Striped. Arm Holes Trimmed to Match Stripe on Pants. Navy Blue with Red Stripe and Navy Blue with White Stripe. Stripe is 3 inches Wide with ¼ inch Navy Stripe in Center. Weight per Dozen 12 lbs. 59 40

Twelfth Dozen in a Box

MENS, TWO-PIECE, QUARTER SLEEVE

Per Dozen

No. 100M—Good Heavy Cotton, Shirts Trimmed around Bottom and Edge of Sleeves, Knee Pants, Trimmed at Bottom, Sizes 34 to 46 inches. Color Navy Blue, Assorted Trimmings. Half Red and Half White to the Box. Weight per Dozen 8 lbs. . . . $19 80

Half Dozen in a Box

No. 125M—Good Heavy Cotton; Stripe on Sleeve and Bottom of Shirt, Knee Pants Striped at Bottom, Sizes 34 to 46 inches, Color Navy Blue, Assorted Stripes, Half Red and Half White to the Box. Stripe is 2½ inch Wide with Four Pin Stripes of Navy Blue in Center. Weight per Dozen 10 lbs. $27 50

Half Dozen in a Box

No. 250M—Good Grade Wool, Striped; Stripe on Sleeve and Bottom of Shirt; Knee Pants, Striped at Bottom, Sizes 34 to 46 inches Color Navy Blue with Red Stripe and Navy Blue with White Stripe. Stripe is 3 inches Wide with ¼ inch Navy Stripe in Center. Weight per Dozen 12 lbs. 55.00

Twelfth Dozen in a Box

JERSEYS

✣ COMBINATION COLORS OR STRIPES

We Can Furnish to Special Order from Factory any Combination of Colors or Stripes at $12.00 per Dozen EXTRA.

SOLID COLORS

Pure Cut Worsted Wool; Full Fashioned Double Collars and Cuffs; Sizes 34 to 46 inches.

Per Dozen

No. 3250N—Navy Blue, Wt. per Doz., 8 lbs . . . $53 80
No. 3250M—Maroon, Wt. per Doz., 8 lbs . . . 52 80
No. 3250G—Gray, Weight per Dozen 8 lbs . . . 52.80

Half Dozen in a Box

Any Other Color can be Furnished to Special Order from Factory in Ten Days to Two Weeks.

Items Marked ✣ not carried in Stock; Can only be Furnished by Shipping Direct from Factory, Indianapolis, Ind.

RICH AMERICAN CUT GLASS

GUARANTEED FIRST QUALITY

FLORAL BORDER CUT GLASS ASSORTMENT

FLOWERS CUT IN SATIN FINISH WITH CENTER HIGHLY POLISHED AND BRIGHT POLISHED LEAVES

FLORAL BORDER CUT GLASS—PATTERN No. 27

A Delicate Design of Light Cutting, Representing Wreath of Flowers Delicately Laid Around the Article, Center of Flowers and Leaves are Highly Polished while Petals and Stems of Flowers are Finished in Satin

Assortment Contains Staple Articles Only, 117 Pieces

	Per Dozen		Per Dozen
¼ Dozen Half Gallon Lemo Jugs	$15.00	½ Dozen 5 in. Handled Olives	$ 6.00
¼ Dozen 4 Pint Fancy Pitcher	24.00	1 Dozen 6 Oz. Handled Custards	4 25
1 Dozen 9 Oz. Table Tumblers	2.00	⅓ Dozen 6 in. High Comports	18 00
1 Dozen 8 Oz. Bell Tumblers	2 25	⅓ Dozen Oils, Cut Neck	16 00
1 Dozen 8 Oz. Bell Tumblers, Star Bottom	3.75	⅓ Dozen Sugars and Creamers	6 00
1 Dozen Footed Sherbets	4 00	½ Dozen Salt and Pepper Shakers	8 00
⅛ Dozen 8½ in. Deep Bowls	13 50	1 Dozen Tall Footed Ice Creams	4 75
1 Dozen 4½ in. Deep Nappies	3 75		

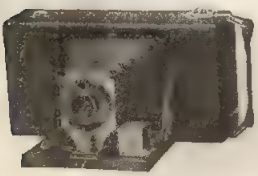
Per Assortment

No. 27—Floral Border Cut Glass Assortment—117 Pieces, Staple Articles Only as Enumerated Above, Complete Assortment $46 00

One Complete Assortment in a Barrel

HUEY & PHILP HARDWARE COMPANY.

Folding Film Cameras



No. 1 Folding Buster Brown Camera. For Films.

9607 For pictures 2¼x3¼ in., adapted to six exposure films (4A), 1¾x3¼x6¼ in., wood case with seal grain covering, good Meniscus achromatic lens, self-setting shutter operated by a finger release lever; time, bulb and instantaneous exposures, brilliant finder for horizontal and vertical pictures, noiseless winding key. Nickel plated trimmings, two tripod sockets, weight 19 oz. Each $14.00

9608 Leather carrying case. Each 3.00

9609 Six exposure films, 2¼x3¼. (4A). Per roll 0.42

Ansco Junior Camera. For Films.

9610 Ansco Junior, for pictures 2¼x1¼ in., adapted to six or twelve exposure films (6A or 6B), 2¾x3¾ in., wood case covered with seal grain leather, high grade single lens with speed at U. S. 8, self-setting shutter, operated by hand lever and automatic in action, for time, bulb and instantaneous exposures, Iris diaphragm with opening from U. S. 8 to 128, brilliant finder for horizontal and vertical pictures, noiseless winding key, weight 24 ozs. Each $24.50

9611 Leather carrying Case. Each. 2.90

9612 Six exposure films, 2¼x4¼ (6A) Per roll 0.52

9613 Twelve exposure films 2¼x4¼ (6B) Per roll. 1.05

No. 3A. Folding Buster Brown.

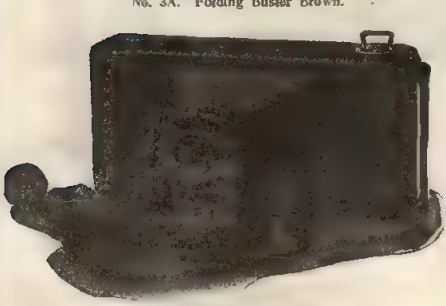
No. 3A. Folding Buster Brown Camera. For Films.

9614 For pictures 3¼x5½ inches, Postal Card size, adapted for six or ten exposure Film (18A or 18B). This instrument has black leather bellows and is covered with seal grain imitation leather and has nickel-plated fittings. Dimensions, 3½x4¾x9¾ inches. Weight, 39 ounces. Lens, Ansco Meniscus Achromatic. Shutter, Midget. Finder, Brilliant, reversible, for horizontal and vertical pictures, in combination with two tripod sockets. Noiseless winding key. Safety spool-holding arrangement. Automatic focusing lock so devised that when set for a certain distance the bellows will lock at that point, but may be adjusted to any other distance by the lever if a change is necessary. Each $26.50

9615 Leather carrying case. Each..... 3.00

9616 Six exposure films, 3¼x5½ (18A). Per roll. $0.84

9617 Ten exposure films, 3¼x5½ (18B). Per roll. $1.48



No. 4 Ansco Folding Pocket Camera.

No. 4 Ansco Folding Pocket Camera. For Films.

9618 For pictures 3¼x4¼ in., adapted to six or twelve exposure films (7A or 7B), 2¾x4¼x8 in., select mahogany case covered with black seal leather, high grade double rapid symmetrical lens, Cyko automatic structure, focal length 5 in., working at speed of U. S. 4, brilliant reversible finder for horizontal and vertical pictures, 2 tripod sockets, noiseless winding key, weight, 27 ozs. Designed to meet advanced requirements in a simple, light and compact form, metal parts heavily nickeled and highly polished. Each $30.00

9619 Leather carrying case. Each..... $3.36

9620 Six exposure films, 3¼x4¼ (7A) Per roll 0.74

9621 Twelve exposure films, 3¼x4¼ (7B Per roll 1.48

A Satisfied Customer is a Regular Customer. Are You One of the Regulars?

"THE HOUSE OF QUALITY"

Photographic Supplies

Developing and Printing Outfits

For negatives 4x5 in. or smaller complete in cardboard box

Contents

3 japanned trays
1 printing frame
1 ruby candle lamp
Developing powders to make eight ozs. solution.
Toning powder to make 8 ozs solution.
1 lb hypo
1 1-oz measuring glass.
1 doz. sensitized paper.
1 manual of instructions

9622 Outfit. Each. $2.12

Contents

2 electrose trays.
1 ruby candle lamp.
1 printing frame.
1 box developing powders.
1 lb. hypo.
1 4-oz. measuring glass
1 doz. sensitized paper
1 manual of instructions.

9623 Outfit. Each. $3.80

Contents

1 electrose trays
1 4-oz. graduate.
1 ruby candle lamp.
1 printing frame.
1 box developing powders.
1 pkg. toning powders.
1 negative drying rack.
1 print roller.
1 1-oz jar paste
1 paste brush
1 doz. card mounts
1 lb of hypo
1 doz. sensitized papers

9624 Outfit Each $4.00

Print Frames

Amateur

Is the highest grade of light frame made; has a steel counter sunk plano hinge clear across, making it very durable and giving it a neat appearance.

		Each.
9625	3¼x4¼ in.	$0.40
9626	4x5 in	.40
9627	5 x7 in	.40
9628	3¼x5½ in	.40
9629	3¼x6 in	.40
9630	5 x7 in	.56

Print Rollers

The frame and handle of these Print Rollers are cast in one piece. The rollers are made of the best rubber, with hardwood centers. These rollers are made to meet the demand for a good roller at a moderate price

Made in one size only with black enameled finish

9631 4 inch. Each .. $0.30
9632 6 inch. Each.... .40

Tripods

The legs are in three pieces, the center piece sliding in between the outer ones, forming the lower section

The lower section may be clamped at any desired length so that the tripod may be used at varying heights. They are of thoroughly seasoned spruce. The metal parts are all of brass, polished and lacquered.

9633 For 5x7 cameras, or smaller size Each ..$1.50

Ruby Oil Lamp

Handsomely finished in rich red baked enamel, with orange and ruby glass. Fitted with a new style of burner that is made on the same principle as the burners for automobile lamps, insuring a steady, even flickerless flame.

9639 4½x5½ in. Glass. Each. $1.80

Insulate Trays

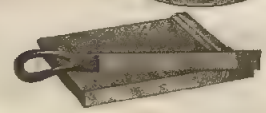
Anti-splash, entirely seamless and consists of a solid mass of homogeneous material. Chemicals will neither effect nor discolor them. They are provided with an outpour lip. All corners in the interior of the tray are rounded.

9640	Size, 4x5.	Each.	$0.30
9641	Size, 5x7.	Each.	0.56
9642	Size, 5x8.	Each.	0.66
9643	Size, 8x10.	Each.	1.10

Tumbler Graduates

These graduates have pressed lines and figures and are accurately graduated.

		Each.
9634	2 oz	$0.12
9635	4 oz.	.16
9636	8 oz.	.20
9637	16 oz.	.30
9638	32 oz.	.90



Trimming Boards

Knives of Tempered Steel, Ground Perfectly, Bed of Finely Finished Hardwood

9644 For 4x5 Prints. Each . $0.80
9645 For 5x7 Prints. Each . 1.00

If You Are Uncertain About Any of Our Goods, Write Us; We Will Answer Promptly.

"THE HOUSE OF QUALITY"

All-Nickel Finish Pumps a Specialty!

APEX

The Best Pump in the World

Will inflate tire in 30 seconds.
Works easily against full tire pressure.
Twice as fast as any other pump
Infinitely easier to operate.
Universally used by discriminating owners.
Packings wear forever
"The air comes in a constant stream."
Length over all—22 inches.
Three cylinders—1¾-inch, 1¼-inch, ¾-inch, 20-gauge seamless brass tubing.
Plunger rods—Bessemer steel, equipped with "B" tanned plunger leathers.
Base—heavy gray iron, gold finish
Connection—24-inch, five-ply hose and quickest operating auto nipple on the market.

Price, Complete in Carton, $6.00

We also make
The Zenith 2-cyl. Pump, $3.00 Complete
The Magic 2-cyl. Pump, $2.75 Complete
The Special 1-cyl. Pump, $2.50 Complete

Buffalo Auto Accessory Mfg. Co., Inc.
369 ELLICOTT STREET BUFFALO, N. Y.

The Original Auto Lamp Chest

containing six Elux 'Mazda Lamps of the proper voltage, candle power, etc., for your car. Write for our price list.

Reduction in prices effective July 1st.

Elux

MINIATURE LAMP WORKS
OF GENERAL ELECTRIC CO.

Main Office and Factory
324 Lafayette Street
New York City, N. Y.

Branch Offices and Warehouses
122 S. Michigan Ave., Chicago, Ill.
1213 Race St., Philadelphia, Pa.

FORD LOCK

$1.00 $1.00

JOBBERS — DEALERS
Stock the FORD LOCK
ABSOLUTELY LOCKS THE CAR
Locks HIGH - LOW — REVERSE

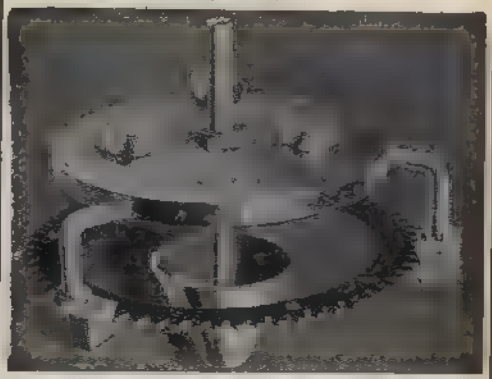
Complies with City Ordinances. Allows car to be moved in case of Fire or Accident. Made of hardened Bessemer Steel.

Write for Discounts

FORD LOCK COMPANY
1042 S. OLIVE STREET LOS ANGELES

Weber's Centering Device
For Centering Speedmeters

(Patented)

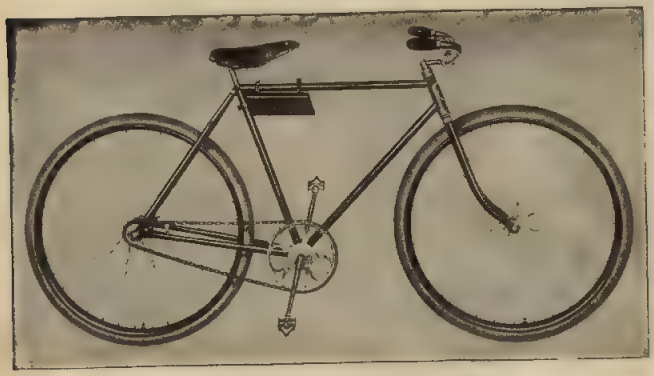


Price, $10.00. Discount to the trade

Facilitates the putting on the Auto or Vehicle wheel the driving gear of the speedmeter without the use of dividers. Automatically centers the Speedmeter gear and holds same in place while fastening to wheel. Heretofore the only means of centering these gears was with a pair of dividers, which was more or less work, and when thus installed the gear would mesh too deep on one side and not enough on the other, which would make a grinding or rattling noise, at the same time make the hand of the Speedmeter oscillate back and forth and give an improper reading. A boy of twelve years can do a better job of installing with this tool than a good mechanic can without it.

MANUFACTURED BY THE
WEBER CYCLE & SUPPLY CO., Colorado Springs, Colorado

Celebrated Fowler Bicycles



FOWLER SPECIAL

MODEL 1

The Best Finish

The Lightest Running

Fully Guaranteed

The Acme of Perfection

PRICE

$93.10

SPECIFICATIONS.

FRAME—21, 23, 24-inch. Flush joints. Reinforced. One-inch seamless tubing.

CROWN—Drop forged, nickeled. Thoroughly reinforced.

HANGER—Celebrated Fauber, one-piece. Best model. 7-inch diamond cranks. Acknowledged the peer of all hangers.

HUBS—Celebrated Thor turned from the finest bar stock. The best that can be bought.

CHAIN—Baldwin, 3/16 inch. Experience has shown this to be the best for all around service.

WHEELS—Made with finest double swaged piano wire spokes. One-piece rock elm rims, enameled to match frame. All wheels are 28 inches in diameter.

COASTER BRAKE—Corbin or New Departure. The best to be had.

GEAR—26 tooth front sprocket, 9 tooth rear sprocket. The best for general use.

FINISH—Carried in stock. Plain black or black with blue head. Bright parts are heavily nickel plated.

OPTIONAL—Maroon, olive green or black with red head.

TIRES—G. & J. clincher, 28x1½ inches. **The best.**

SADDLE—Persons Suspension. The most comfortable saddle made.

HANDLE BARS—Chicago adjustable with 2¼ inch extension stem. Fine vulcanized grips. Can be adjusted to any position between a low drop and a high upturned.

TOOL BAG AND TOOLS.

Fowler Coaster Brake Special

MODEL 2

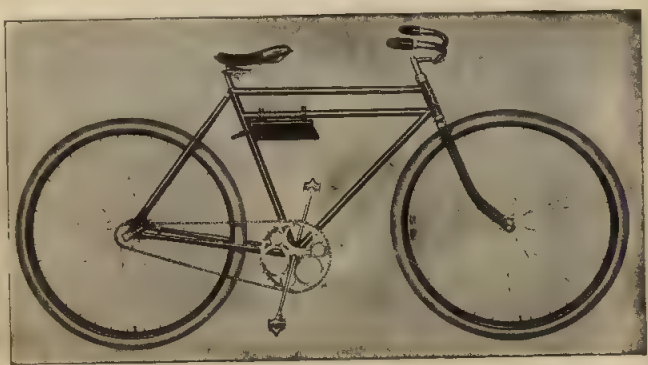
Our special recommended wheel built to withstand the hardest service. The extra bar makes the most rigid frame possible and will give perfect satisfaction on the hardest roads.

Fully Guaranteed

PRICE

$79.80

None better at any price



SPECIFICATIONS.

FRAME—21, 23, 25-inch. Flush joints reinforced. One inch seamless tubing. The extra bar gives this frame the most rigidity possible and is recommended for the most exacting service.

CROWN—Drop forged, nickeled. Thoroughly reinforced.

CHAIN—3/16 inch Diamond. Will give perfect satisfaction.

HANGER—Celebrated Fauber, one piece, 7 inch round cranks. The best hanger made.

HUBS—F. M. S. finest quality turned from finest bar stock. None better.

COASTER BRAKE—Corbin or New Departure. The best to be had.

GEAR—26 tooth front sprocket, 9 tooth rear sprocket. The best for general use.

WHEELS—Made with finest double swaged piano wire spokes. One-piece rock elm rims, enameled to match frame.

FINISH—Carried in stock. Plain black or black with blue head. Bright parts are heavily nickel plated.

OPTIONAL—Maroon, olive green or black with red head.

TIRES—Goodrich single tube, 28x1¼. Guaranteed.

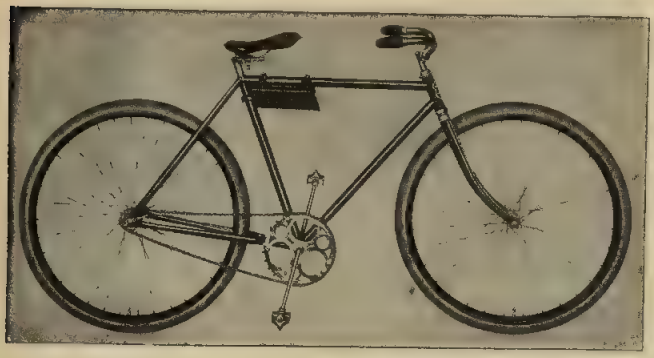
PEDALS—Rat trap. Best pattern.

SADDLE—Troxel padded. Best quality, very comfortable.

HANDLE BARS—Chicago adjustable with 2½ inch extension stem. Fine vulcanized grips. Can be adjusted to any position between a low drop and a high upturned.

TOOL BAG AND TOOLS.

Celebrated Fowler Bicycles



FOWLER MODEL 8
FOR
TOURIST
OR
BUSINESS MAN
Thoroughly Reliable.

PRICE
$59.60

SPECIFICATIONS

Frame.—21-23-25-inch. Seamless 1⅛-inch tubing; flush joints, reinforced.

Crown.—Heavy drop forged.

Hanger.—Celebrated Fauber one-piece, with 7-inch round cranks, nickel plated.

Hubs.—F M S turned from bar, thoroughly reliable.

Chain.—Diamond 3, 16-inch. Sure to give satisfaction.

Wheels.—Best quality spokes, onepiece rock elm rims, enameled to match frames.

Tires.—Wabash Single tube, 28x1⅜.

Saddle.—Troxel padded.

Handle Bars.—Adjustable.

Finish.—Carried in stock, plain black.

Optional.—Maroon or olive green.

Tool Bag and Tools.

EXTRA.

Coaster Brake.—We do not regularly equip this wheel with coaster brake but if this feature is desired it can be furnished at an additional cost of $3.00.

JUVENILE MODELS FOR THE LITTLE FOLKS

These wheels are made of high grade material, put together in the most workmanlike manner and are finished equal to the higher priced models. They are strong and durable and will stand the hardest service.

Boys' Juvenile Bicycles.

Model 11.—16-inch Frame, 24 inch Wheels. **$54.60**

Model 13.—18-inch Frame, 26-inch Wheels. ..... - **56.20**

Girls' Juvenile Bicycles.

Model 12.—16-inch Frame, 24-inch Wheels..... **$54.60**

Model 14.—18-inch Frame, 26-inch Wheels..... . .... - **56.20**

SPECIFICATIONS FOR BOYS AND GIRLS' JUVENILE BICYCLES

Frames.—Finest seamless tubing, 1-inch in diameter.

Hanger.—Fauber one-piece, with 5⅛-inch round cranks. The best, because the easiest running and most simple, cannot get out of order.

Tires.—Hartford Single Tube, or Morgan & Wright, guaranteed.

Pedals.—Rat trap or combination rubber.

Handle Bars.—Adjustable, simple and reliable.

Finish.—Carried in stock, plain black, bright parts heavily nickel-plated.

Optional.—Black with red head, and black with blue head.

Tool Bag and Tools.

WATER FILTERS

IMPROVED FULPER

Natural Stone, Germ Proof, Separate Ice Chamber, Nickel Plated Faucet

Nos.	6	7	8	9	10
Filters Per Day, Gal	3	4	6	9	13
Top Holds, Quarts	5	7	9	13	18
Bottom Holds, Qts	8	11	15	20	26
Weight Each, Lbs	20¾	24¾	31	42½	53¾
Each	$5.00	6.00	7.00	9.00	11 00
Extra Ice Chambers, Each	2.00	2.00	2.00	2.00	2.00

Warranted to be absolutely germ-proof. All parts interchangeable.

One in a Crate

LAVA

Seamless, Lava Enameled, Purple Mottled Color, White Enameled Inside, Nickel Plated Faucet

	Each
Cleveland—2 Vessels, Diameter of Top Vessel 10½ in., Depth 7½ in. Diameter of Lower Vessel 10¾ in., Depth 7 in. Each Vessel Holds 11 Quarts Capacity Per Day 8 Gallons	$7 50
Extra Stones	2.00

Filtration is obtained by percolation through a porous natural stone by force of gravity.

Weight Each 25 Pounds

ICE CHIPPERS

LITTLE GIANT

Hand Use, Every Part Galvanized, Especially Suitable for Hospitals

No.	2
Hopper, Inches	4x6
Height, Inches	18
Weight Each, Lbs	30
Each	$18 00

Hand Use, Suitable for Druggists and Confectioners

No.	5
Hopper, Inches	8½x12
Floor Space, Feet	2x2
Height, Inches	46
Capacity Per Minute, Lbs.	250
Weight Each, Lbs.	270
Each	$70 00

The **Little Giant Ice Chipper** Blades are set lengthwise and spiral on the shaft so that only one tooth of each blade strikes the ice at the same moment. As the cylinder revolves the teeth cut the ice both lengthwise and sidewise at the same time, thus making the machine to operate easily and quickly, without the strain or jar noticeable in pick machines.

The housing of the Little Giant Ice Chippers is made in two parts bolted together in the center. This form of construction gives a strong, simple and durable frame. No large bolt holes in the corners to weaken the castings. The shafts are made of select grade cold rolled shafting. The cylinders are made of the best quality grey iron castings.

WATER COOLERS

Nos 01 to 014

Galvanized Iron Reservoir

Japanned Tin Breast and Cover, Solid Filled Walls, Side Handles, Assorted Colors, Fancy Decorations, Nickel Plated Lever Faucet

Nos.	01	02	03	04	06	08	010	014
Gallons	1½	3	3	4	6	8	10	14
Wt. Each, Lbs.	17	20	29	32	36	44	56	65
Each	$1.50	1 95	2 15	2 40	3 20	4 15	4 50	4 65
	2 20	2 50	2 90	3 50	4 20	5 30	6 50	9 00

Seamless White Enameled Reservoir

Japanned Heavy Tin Breast and Cover, Solid Filled Walls, Side Handles, Assorted Colors, Fancy Decorations, Nickel Plated Lever Faucet

Nos.	22	33	44	66	88	1010
Gallons	2	3	4	6	8	10
Weight Each, Lbs	35	47	60	80	85	110
Each	$3 50	4.50	5.50	7.00	8.50	11.00
	4 50	5 00	5.80	8 50	10.00	12 50

WATER COOLER STANDS

STANDARD

For Regular Water Coolers
Japanned, with Drainer and Drip Pail

Nos.	114	113	116
Height, Inches	29½	29½	29½
For Coolers, Gallons	1½ to 3	4 to 8	10
Inside Diam., Inches	12⅞	17¼	20¾
Weight Each, Lbs	11	16	25
Each	$5 00	6.00	7.00

SIMPLEX

For U. C. Water Coolers

Black Enameled, Heavy Wire Legs, Corrugated Top Plate, with Drainer

Nos.	1	2	2A	3
Height, Inches	30	30	30	30
For Coolers, Gallons	3 & 5	10	15 & 20	25 & 30
Inside Diam., In.	14	15⅜	16½	19½
Each	$4 00	5 00	5 50	6 50

Average Weight Each 12 Pounds

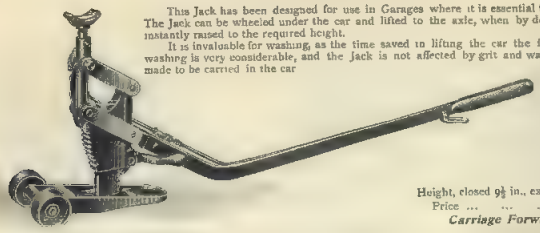
HUEY & PHILP HARDWARE COMPANY.

No. 811.

Patent Garage Jack.

This Jack has been designed for use in Garages where it is essential to be able to lift any car quickly. The Jack can be wheeled under the car and lifted to the axle, when by depressing the handle the car is instantly raised to the required height.

It is invaluable for washing, as the time saved in lifting the car the four times which is necessary for washing is very considerable, and the Jack is not affected by grit and water like the more delicate Jacks made to be carried in the car



The Jack is invaluable for Repairs, as it saves time and provides a firmer foundation than any other Jack. It cannot be misused, and there are no loose parts to get lost

It is practically unbreakable, being made of malleable cast iron and steel.

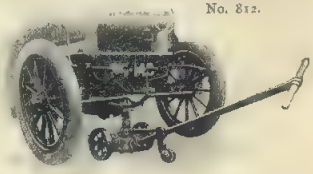
Height, closed 9½ in., extended 23 in.

Price ... ... **£2 : 2 : 0**

Carriage Forward.

Quick-Lift and Short-Locking Motor Jacks, and Motor Omnibus and Steam Lorry Lifting Jacks.

No. 812.



These Jacks, 4 different types, have been specially designed and mounted on wheels to bodily lift by the front axle any type of automobile for the purpose of easy manipulation, cleaning, repairing inflating, or removing tyres.

	Price
Pattern A, with Screw Lift actuated by turning handle, to lift up to 30 cwt.	£5 : 5 : 0
„ B, plain Lever Jack, for cars up to 15 cwt. ...	3 : 3 : 0
„ C (as illustrated), similar to Pattern A, but extra strong ... ... „	6 : 6 : 0
„ D, Bus Jack, used extensively in Constructional Department of Public Service Cars and Steam Lorries. Extremely powerful ...	8 : 8 : 0

Free on rail at Works.

No. 813.

The New Garage Jack.

View showing both adjusting racks and the lifting rack run out to full extent.

This Jack has been designed expressly for use in the Garage, for lifting cars for washing purposes, changing wheels or tyres, repairs and general service.

It is provided with two sliding racks operated independently of each other, and with adjustments to suit different heights of axles, the load being lifted direct **at one stroke** by means of the lever, and maintained in position as long as may be required.

The Jack is of substantial design and construction, and being made of best quality material and workmanship, is practically unbreakable. It is mounted on two rollers for easy transport. The Jack is of ample strength for dealing with the usual work of a Garage, including heavy touring cars, etc.

Height when down	3 in.
Run-out of each rack	4½ „
Direct lift from lever	4 „
Height with full run-out	21 „
Approx. weight	34 lb.
Price	42/-

The Registered Taxi Jack.

No. 814

This Jack is specially suited for Taxi-cabs, being compact, strong, simple in construction and easily operated. The disposition of the metal used in the manufacture of the Jack is such that rigidity is secured without superfluous weight.

To use the Jack, it is placed under the axle; the head of the Jack is then lifted by hand and the bevel wheel spun down into gear, after which the axle is raised by means of the lever. **To lower,** turn the lever in the reverse direction till the head of the Jack is clear of the axle, when the screw may be instantly lowered by lifting the head and spinning the bevel wheel out of gear so as to permit the screw to enter the Jack body

Size No.	Height when down.	Run-out.	Size of base	Approx. weight of Jack.	Price, including Lever
1	7⅞ in.	4 in.	4½ × 3½ in.	4½ lb.	9/6
2	9 „	5 „	4½ × 3½ „	4½ „	9/6

Contractors to the Home, Indian, and Colonial Governments.

Chests of Drawers.

For Nails, Screws, Small Fittings, Collections, etc., etc.

No. 799

London-made Dental Cabinet.

No. 799.
10 Drawers, 14⅞ × 11¼ × 11 in., 15/- each.

No. 800. Ditto, Polished, 18/- each.

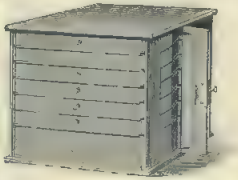
No. 801.
12 Drawers, all one height, 18⅛ × 11¼ × 11 in., 16/6 each.

No 802. Ditto, Polished, 19/9 each.

No. 803.
7 Drawers, with side locking arrangement, 13/- each.

No. 804. Ditto, Polished, 16/6 each

No. 805. 20 Drawers.
Height 20⅝ in. ... Width 12⅝ in
Depth 9⅝ in. Price 11/6 each.

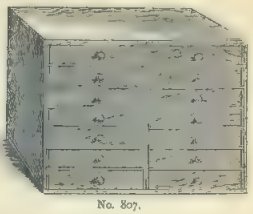


No. 806.

Tool Cabinet.

With side locking arrangement.

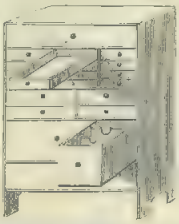
With	7	8	10	12 Drawers
Pine	15/-	16/-	18/-	22/- each.

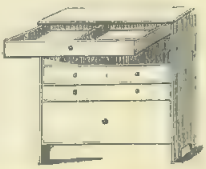


No. 807.

London made, in Pine. Has 2 Rows of 7 Drawers, and Fitted with Brass Knobs. 12⅛ × 15 × 10⅛ in.

Price ... ... 16/6 each.





No. 808.

12 Drawers.

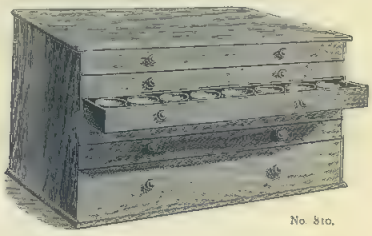
Height ... 14 in.
Width ... 12½ „
Depth ... 9⅜ „

Price 7/6 each.

No. 809.

Polished Mahogany.

No A	6 Drawers	3½ × 8½ × 4¼ in	... ...	4/- each
„ B.	9 „	as illustrated, 4 × 8⅜ × 4⅛ in.	...	4/6 „
„ C.	12 „	4½ × 11⅛ × 4⅛ in.		5/6 „
„ D	7 „	various sizes, 5½ × 15½ × 5½ in		6/9 „
„ E.	Special Mahogany Chest, 6 Drawers, with secret locking arrangement, 5¼ × 11 × 5 in....			12/- „



No. 810.

Chest of Drawers, 21 in. long, 12 in. high, and 11⅛ in deep, Stained and Polished Mahogany. The 5 Top Drawers contain in each 32 Round Metal Boxes (160 in all), 2½ × ⅞ in. deep, all with Glass Tops, thus enabling their contents to be seen at a glance without removing their covers, an advantage which is highly appreciated. The Bottom Drawer is empty, and is 3 in. deep.

Price 52/- each.

We fit up this Chest with an assortment of Screws, Brass Hooks, Eyes, Nails, etc., from our extensive stock of Cabinet Brass Founders and Builders' Hardware, at an extra cost of 10/-, 15/-, or 20/- according to selection. Metal Boxes, as above, 2/- per doz.

A large and varied Stock of Machines and Tools for Woodworkers.

‡GASOLINE ENGINES.

GENERAL DESCRIPTION.

This line of Engines is built by manufacturers who make a specialty of Gasoline Engines. Their efforts are concentrated on a limited number of sizes suitable for all power purposes connected with farm work, such as pumping water, sawing wood, running feed cutter, corn sheller, cream separator, etc. They are made from the best of materials suitable for the purpose by skilled workmen, aided by a plant equipped with modern machinery. They are simple in construction, pleasing in design and absolutely reliable. Each Engine is fully guaranteed. Full directions for operating are sent with each outfit. Engines, when shipped, are ready to run as soon as they are uncrated. These features are valuable to the man who has had no previous experience with the operation of a gasoline engine.

MIXER OR VAPORIZER.

The mixer is the heart and lungs of any Gasoline Engine, as everything depends upon it to furnish the proper mixture of gasoline and air to form the highest explosive gas. The "Havana Mixer" does this and never fails. The operation of our mixer, after the Throttle or Needle Valve is open, is automatic, requiring no attention. It is composed of only three pieces, viz., Mixer Shell, Mixer Bottom and Mixer Valve. There is no Gasoline exposed to the air which would evaporate and result in considerable waste.

ELECTRIC IGNITER

The igniter plug is in plain sight and easy of access. It is not necessary to remove it from the Engine, except for renewal of the electrode points

CONNECTING ROD

The Connecting Rod on all our Engines is extra long, so that the pressure on piston due to the angularity of the rod is reduced to a minimum. It is provided with bronze boxes on each end, with means for taking up the lost motion due to the natural wear of the boxes.

CRANK SHAFT.

The Crank Shaft is made of Open Hearth Steel, especially prepared for this use. It is forged from the solid billet, leaving the grain of the steel in the best condition for the greatest strength.

CYLINDER AND PISTON

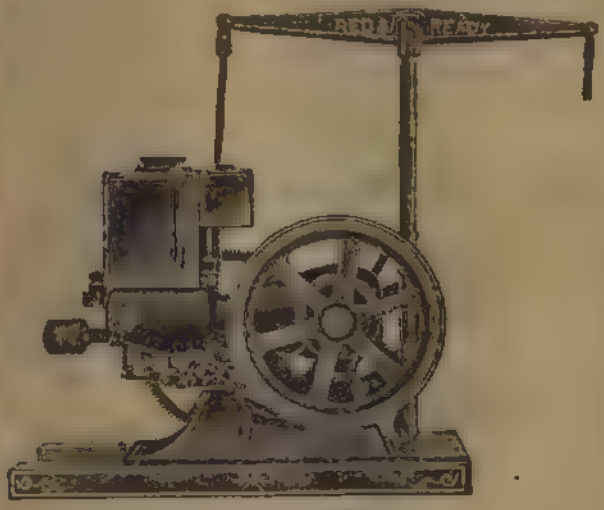
The Cylinder and Piston is made of close grained Cast Iron, hard enough to withstand wear, yet soft enough to be machined. The Cylinder is bored perfectly round to gauge. The Piston is turned so as to fit Cylinder tight, which enables us to fit the Piston by hand to a more perfect fit in the Cylinder than is possible in any other way, as the Cylinder and Piston change their shape when heated, and the only way to get a good fit is to file the tight places, which show when the Engine has been run several minutes

GOVERNOR

The Governor controls the Exhaust Valve by an ingenious device in connection with the Rocker Arm, which holds the Exhaust Valve open when Engine is under part load, thus reducing the compression and saving fuel.

VALVES

Intake and Exhaust Valves are of the Poppet Type, made of the best materials that have proven best suited for the purpose. They have large seats accurately ground, with long stems and guides, which insures their always seating properly.



RED AND READY

Painted Red.

For Pumping Water from Wells, Lakes, Creeks or Rivers; for Watering Stock, Irrigating Land, Supplying Water to Mines and Cars, Grinding Feed at the rate of from 10 to 24 bushels per hour; Sawing Wood to store lengths, enough in a few hours to last a season; Running Cream Separators, Churns, Washing Machines, Corn Cutters, Fodder Cutters, Corn Shellers, Grind Stones, Emery Wheels and other Machinery. In fact, there is no place where a Steam Engine, Horse-Power or Wind Mill can be made to do the work that a "RED AND READY" will not make good, doing it better, with less attention, annoyance and expense than any other Gasoline Engine built. "RED AND READY" Engines are so simple that a boy 12 years old can understand and operate them. They have all the adjustments pinned on keyed to place, which insures their always being in working order. There is no delay when power is required; simply open the Gasoline Throttle, turn Battery Switch on, put Starting Crank in place, and give the Engine two or three turns, and your power is on for as long as you want it. Uses less than ½ pint of gasoline per horse power per hour when operating; does the work of four horses; never gets tired, and no expense when idle.

Every "RED AND READY" is thoroughly tested for power and imperfections; is guaranteed to pull more than its rated horse power, and will work under the load it is rated at day after day.

It is the best Engine to buy, for the following reasons:

First—It uses a minimum amount of fuel.

Second—When there is no explosion, there is no spark; saves battery and points

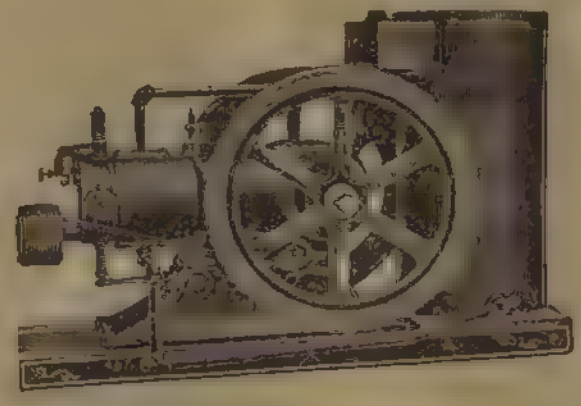
Third—Mechanism and valves remain idle after an explosion when load is light, which means less wear and longer life.

"RED AND READY" Engines are built for service; they operate on the four cycle principle, which is the simplest to understand and the most reliable type to operate.

Each

‡No. 3RRJ—Three-Horse Power, with Pumping Jack; Floor Space 16x32 in.; Size Pulley 6x6½ in.; Minimum Speed 250; Maximum Speed 400; Diameter of Fly Wheel 25 in.; Cylinder Bore 4½ in.; Piston Stroke 7 in.; Net Weight 850 lbs.....$180.00

One in a Crate; Weight Each Crated about 932 lbs; Mounted on 4x4 in Skids



HAVANA; 3 and 4 H. P

Painted Red

The illustration above shows the "HAVANA" General Service Engines, 3 and 4 Horse Power, which stand today as the simplest, strongest, safest and most reliable Engines upon the market

They embody the same principles and construction as the "RED AND READY" with the exception that they are not equipped with a pump jack, but make an ideal pumping Engine connected to pump jack with a belt wheel.

There is no Engine equal to them for Irrigating Land, Pumping Wells, Running Blacksmiths' Machinery, Carpenter or Contractor Shops, Printing Presses, Meat Cutters, Ventilating Fans, Ice Breakers, Well Drilling Machinery, Feed Mills, Wood Saws, Corn Shellers, Cane and Cider Mills, or any Machine that can be run with a belt. The Havana Engine will do it better, cheaper and with less attention than any other Gasoline Engine built.

Havana General Service Engines are mounted as shown in cut, upon 4x4 skids, with all pipe and tank connections made at the Factory, ready to operate as soon as the crating is removed, tank filled, battery attached and oiled

Manufacturer's One-Year Guarantee accompanies each Engine.

Uses less than a pint of gasoline per horse power per hour when operated.

Each

‡No. 3H—THREE-HORSE POWER; Floor Space 24x32 in.; Size Pulley 10x6 in.; Minimum Speed 300; Maximum Speed 450; Diameter of Fly Wheel 28 in.; Cylinder Bore 5 in.; Piston Stroke 7 in.; Net Weight 660 lbs.; Shipping Weight 915 lbs..... $225.00

‡No. 4H—FOUR-HORSE POWER; Floor Space 24x35 in.; Size Pulley 10x6 in.; Minimum Speed 300; Maximum Speed 450; Diameter of Fly Wheel 30 in.; Cylinder Bore 6 in.; Piston Stroke 7 in.; Net Weight 940 lbs.; Shipping Weight 1025 lbs..... $275.00

One in a Crate. Mounted on 4x4 in. Skids.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡ CORN SLICERS.

‡ EAGLE, HAND POWER.

Hardwood Varnished Frame, Box, Feed Chute, etc.; Full Bolted and Braced; Sheet Steel Top; Box Painted Red and Black; Cast Iron Crank, with Turned Hardwood Handle; Cast Side Braces; Plain Hardwood Lower Discharge Chute; Steel Axle, with Two Revolving Steel Knives, Working on Heavy Balanced Arm. Adjustable to Cut Ear Corn into Pieces up to 2 in. Long, for Feeding Cattle. Sliced Ear Corn provides the needed amount of roughness to Promote Digestion and Perfect Assimilation, and at Less Expense than Ground Feed; Cuts at Rate of about 60 Bushels per Hour; All Metal Parts Painted Black.

Each

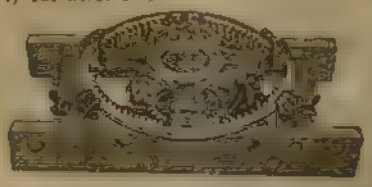
‡ No. ECS—*EAGLE; Height over all, including Feed Chute 56 in.; Feed Chute 24 in. Wide, 46 in. Long; Length over all 76 in.; Size of Base 24x30 in.; Weight each about 215 lbs.*.....$25.00

Packed Loose

‡ HORSE POWERS.

‡ EAGLE.

Heavy Hardwood Braced and Bolted Frame, Painted Brown, with Cast Iron Gear Mechanism, Steel Shafts, Cast Guard Pieces and Sweep Attachments, Cast Knuckles, Metal Parts Painted Black. Sweep or Lever 3x6 in. x 11 ft. Long, Painted Brown, All Operated by One Horse Only.



With Oblique Corner Bolts, Wedge-Headed, acting as Braces; Internal Faced Master Gear Wheel, with Double Horizontal Secondary Gears; Complete with Two Levers, Two Lead-Bars, Two Tumbling Rods, One Ground Block, Three Knuckles, Stakes, etc.; Speed, 28 Revolutions to One Round of Horse, or about 85 Revolutions of Tumbling Rod per Minute; Length over all 84 in.; Width over all 27 in.; Diameter of Main Gear Wheel 33 in.; Height over all 18 in.

Each

‡ No. 2—*Two-Horse Power; Weight each about 750 lbs.*.....$56.00

Plain Bolted, with Arched Steel Top Brace, External Faced Horizontal Master Gear, with Supplementary Gear; Complete with One Lever, One Lead-Stick, One Tumbling Rod and One Knuckle; Speed, 22 Revolutions to One Round of Horse, or about 65 Revolutions of Tumbling Rod per Minute, Length over all 84 in., Width over all 27 in.; Diameter of Main Gear Wheel 28 in.; Height over all 24 in.

Each

‡ No. 4—*One-Horse Power; Weight each about 530 lbs.*..... $48.00

Packed Loose.

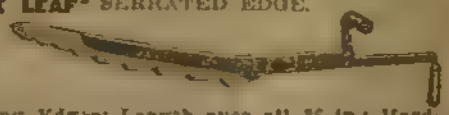
HAY KNIVES.

KEEN KUTTER* SERRATED EDGE.

Forged Convex Curved Steel Blade and Handle Shanks. Sharpened Cutting Edges; Length over all 36 in.; Hardwood Handles 3¾ in. Long, with Tangs extending Through and Riveted; Highest Grade Crucible Steel Blade, Full Polished, Upper Part Painted Blue; Black Enameled Ribbed Handles with Nickel Plated Ferrules. Per Dozen

No. K—*KEEN KUTTER**; Weight per dozen about 48 lbs...$16.50

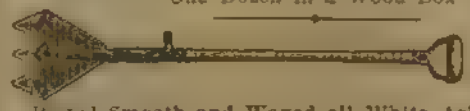
OAK LEAF* SERRATED EDGE.



Forged Convex Curved Steel Blade and Handle Shanks. Sharpened Cutting Edges; Length over all 36 in.; Hardwood Handles 3¾ in. Long, with Tangs extending Through and Riveted; Special Crucible Steel Blade; Polished Cutting Side; Back of Blade and Upper Part Painted Green; Black Enameled Hardwood Handles, with Nickel Plated Ferrules. Per Dozen

No. 12—*OAK LEAF**; Weight per dozen about 48 lbs...$13.00

One Dozen in a Wood Box



KEEN KUTTER*. UPRIGHT OR HEATH'S PATTERN.

Polished Smooth and Waxed all White Ash Handle with Patented Black Malleable Iron D Wood Grip Painted Black Malleable Iron Plate and Corrugated Step with Long Strap in One Piece securely Riveted to Handle, Three Gold Bronzed Crucible Steel V shaped Blades, with Beveled Edge, Riveted to Plate; Length over all 46 in. Width of Plate 9 in. Per Dozen

No. K3—*KEEN KUTTER**; UPRIGHT PATTERN; Weight per dozen about 96 lbs.....$15.00

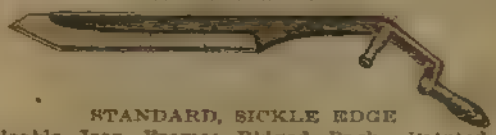
One Half Dozen in a Crate

OAK LEAF* UPRIGHT OR HEATH'S PATTERN.

Malleable Iron Plate with Riveted Malleable Handle Strap and Braced Corrugated Step in One Piece, Painted Dark Blue; Three V-Shaped Beveled Edge, Sharpened, Steel Blades riveted on; Varnished Ash Handle, with Gold Bronzed Malleable Iron D Wood Grip; Length over all 45½ in.; Width of Plate 9 in. Per Dozen

No. E12½—*OAK LEAF**; UPRIGHT PATTERN; Weight per dozen about 63 lbs.....$15.00

One Dozen in a Crate.



STANDARD, SICKLE EDGE

Malleable Iron Frame; Ridged Back, Painted Dark Green; Adjustable Locking, Japan Finish Handle Piece, with Two 4 in. Hardwood Grips bolted to Four Section Steel, Sickle Edge, Cutting Blades riveted on; Length over all 3[illegible] in., Length of Cut 12 in. Per Dozen

No. S 1—SICKLE EDGE; Weight per dozen about 54 lbs.....$16.00

One-half Dozen in a Wood Box.

INSTRUCTIONS FOR SETTING UP AND OPERATING RED AND READY AND HAVANA GASOLINE ENGINES.

ENGINE.

Upon receipt of Engine, remove crating carefully, clean off Engine and examine thoroughly, to make sure all nuts are tight, and that nothing is bent or broken. Unpack fixture box, put the oilers in places provided for them, fill them with oil and adjust the feed so as to feed two or three drops per minute. Use good oil.

BATTERY

Open Battery Box, take out wires that connect to Engine, and notice if all the wire connections between cells (from cells to spark coil and to switch) are connected and fastened tight. Connect Switch Lever and bring the loose wires together and separate quickly. If the battery is working properly there will be a bright, active spark. If spark is good, connect one wire to the binding post, the other one to the insulated fixed electrode in the igniter plug.

GASOLINE

Fill Gasoline Tank.

STARTING

Everything is now ready for starting the Engine.

STARTING ENGINE

Open Globe Valve in gasoline supply pipe, open throttle valve until notch on hand wheel is on top, turn battery switch on to button, open sight feed lubricator, place starting crank (used on small Engines only) on crank shaft, hold induction valve open with left hand and give two or three quick turns with starter crank, take your hand off the induction valve and the Engine will start on the next compression stroke. The starter crank will slide off the crank shaft easily.

For the large Engines, the easiest way to start them is to set the crank a little above the inner dead center, put a little gasoline in the priming cup, open priming cup so that the gasoline can flow into the cylinder, then turn the Engine over until the crank is on the outer dead center, close the priming cup, then pull the fly wheel back against the compression as hard as possible and from the electric igniter, the charge will be ignited and start the engine.

STOPPING ENGINE.

First, turn off Battery Switch; Second, close Globe Valve in gasoline supply pipe, leaving throttle open in correct position for running; Third, close sight feed lubricator. Do not fail to turn off switch when Engine is not in use. Keep your battery dry, Engine clean and well oiled, and it will give you the service intended.

DRAINING CYLINDER

During freezing weather be careful to drain out all water in the cylinder and pipes, so as to eliminate all risk of freezing the water and bursting the water jacket.

LOSS OF COMPRESSION.

If Engine loses compression it will not pull its rated power and will cause trouble about starting. By forcing piston against the compression it will be easy to determine whether or not there is any serious leak, if it is impossible to turn the Engine over against the compression, the piston and valves are in good condition. If there is quite a leak, examine suction and exhaust valves, especially the exhaust valve, and make sure the valve has a good seat. If the seat is imperfect it will be necessary to grind the valve to a good seat with grain emery and oil.

BACK PRESSURE

Back Pressure may be produced by any one of the following conditions:

Too long an exhaust pipe.

Too many elbows.

Too small a pipe.

We recommend, where long exhaust pipe is used, to have as few turns and as large a pipe as possible.

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

ELECTRIC AND GAS PORTABLE LAMPS

No. 12085, Price, $17.00

A beauty. Height, 22 inches; with 16-inch Shade, fitted for Gas or electric. Amber, Green or Amber Green Glass, finished in Pompeian Bronze, Verdigris, Statuary Bronze, and Antique Brass. Complete with Key sockets and six feet of silk cord and Benjamin plug.

No. 12087, Price, $18.00

This lamp is made for Electric or Gas. Height 23 inches, with 15-inch Shade in Amber, Green and Gold Amber Glass, Aprons of Assorted Colors. Finished in Statuary Bronze, Antique Brass or Verde Green. Electric fitted complete for 2 bulbs, with 6 feet silk cord. Gas bare or complete as ordered.

No. 12088, Price, $30.00

This Portable Lamp is made in Gas or Electric, it is 25 inches high with a 9 inch base. Filigree Shade, Ruby and Green, 16 inches in width. Full Sockets finished in Brass or Pompeian Bronze.

No. 12083, Price, $20.00

Alone is made for Electric or Gas. Height 21½ inches, width 15 inches. Open Work Metal Shade in Green Ivory Gold Amber or Ruby Amber Green Glass. Finished in Pompeian Bronze, Antique Brass or Gold. Electric fitted complete for 2 bulbs. Full Sockets with 6 feet silk cord. Gas bare or complete as ordered.

No. 12090, Price, $50.00

This lamp is made for Electric or Gas. Height, 28 inches, with 20½-inch Hexagon Open Work Metal Shade, fitted with Opalescent Convex, Sunset and Water Color Glass. Finished in Antique Brass with Relievo Finish. Electric fitted complete for 3 bulbs. Full Socket with 8 feet silk cord. Gas bare or complete as ordered.

No. 12089, Price, $20.00

This Portable Lamp is made for Electricity or Gas. Height, 21 inches, width 15 inches. Hexagon Open Work Metal Shade fitted with Convex Ruby Amber Green Amber or Green Opalescent Glass. Finished in Pompeian Bronze, Antique Brass, with Relievo Finish in Gold. Electric fitted complete for 2 bulbs. Full Sockets with 6 feet silk cord. Gas bare or complete as ordered.

HUNTING KNIVES

I*XL GEORGE WOSTENHOLM AND SON

Lock Back, Length 6¼ inches; German Silver Scored and Knurled Bolster, One Large Saber Blade, Half Polished Iron Lining, German Silver Shield; Weight per Dozen 4¾ lbs.

No. B7630—Genuine Stag Handle ..... Per Dozen $33.00

I*XL—GEORGE WOSTENHOLM AND SON

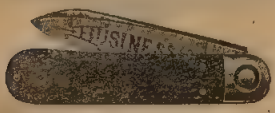
Lock Back, Length 4¾ inches, Polished Steel Rat Tail Bolster; One Large Clip Blade Half Polished, Iron Lining, No Shield, Weight per Dozen 2½ lbs.

No. B1706J Patent Stag Handle ... Per Dozen $10.80

I*XL GEORGE WOSTENHOLM AND SON

Plain Back, Length 5⅝ inches Polished Steel Double Rat Tail Bolster, One Large Spear Blade Glazed, Iron Lining No Shield, Weight per Dozen 4 lbs.

No. B7758—Genuine Stag Handle ... Per Dozen $22.00



Press Button; Length 3⅝ inches German Silver Flush Bolster; One Large Spear Blade, Half Polished and Etched; Iron Lining, No Shield; Weight per Dozen 2¼ lbs.

No. K500—Patent Stag Handle ... Per Dozen $13.00

Press Button, Length 3⅝ inches German Silver Flush Bolster; One Large Clip Blade, Half Polished and Etched; Iron Lining; No Shield, Weight per Dozen 2½ lbs.

No. K510—Patent Stag Handle ... Per Dozen $13.20

Press Button, Length 4⅛ inches, German Silver Flush Bolster One Large Clip Blade with German Silver Guard Half Polished and Etched Iron Lining, No Shield, Weight per Dozen 3¾ lbs

No. K1005—Patent Stag Handle ... Per Dozen $15.70

Press Button, Length 4⅞ inches, German Silver Flush Bolster; One Large Clip Blade Without Guard; Half Polished and Etched; Iron Lining, No Shield Weight per Dozen 3¾ lbs.

No. K1000—Patent Stag Handle ... Per Dozen $15.45

Half Dozen in a Box

"Diamond Edge is a Quality Pledge"

No. 1555. **Petroleum Enamelling Oven.**

This Oven is designed to be heated with our large Brazing Lamps, and is constructed with a Heat-Distributing Chamber below the oven, into which the flame is directed and from which the heat rises into the oven through perforations in the dividing wall.

This arrangement ensures an even distribution of the heat throughout the oven, and prevents the powerful flame of the lamp coming into direct contact with the work.

It will enamel two sets at a time without wheels, or one set with wheels.

It costs from 1½*d.* to 2*d.* per hour for Petroleum.

The Ventilator is made with a spout which fits 3 in. rain water piping, with lengths of which it can be easily connected, and the fumes, after enamelling, discharge outside the workshop.

The Ovens are made in sections, and packed in cases 5 ft. 6 in. by 2 ft. 9 in. by 9 in.

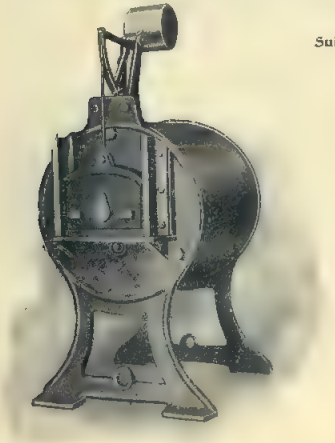
Total height from ground ..	5 ft. 3 in.
Inside Height of Oven	4 „ 0 „
„ Width	1 „ 6 „
„ Depth	2 „ 6 „

Approximate Weight without case, 1 cwt. 1 qr. 7 lb.

Price, including Thermometer, **£3 : 10 : 0**
„ fitted with Gas Burner, **3 : 17 : 6**
Thermometers, each **4 6**

When a Gas Burner is sent no perforated plate for the bottom is necessary.

Oven *Size* 2. This is in all respects similar to the one above, except that it is 1 ft. wider. It will take two sets complete with wheels and our lamps easily maintain the temperature at 400 degrees.
Approximate weight without case, 1 cwt. 3 qr. 21 lb. Packing Case 10/- extra (returnable).
Price **80/-** If fitted with Gas Burner, **90/-**



The XL Hardening Furnaces.

Suitable for Lathe Tools, Milling Cutters, etc.

No. 1556.

These Furnaces are operated with High-Pressure Gas, Ordinary Town Gas, or Producer Gas, with either Draught or Blast Burners.

They are suitable either for Annealing or Hardening.

Three different types of doors are made, either Raising and Lowering, Sliding or Hinged doors.

A temperature of 2,400° F. can be maintained.

All Furnaces are guaranteed as to temperature and uniformity of heat.

Made in three sizes:

	Inside Measurement or Working Space.			Price
No. 1.	9 in. long.	6 in. wide.	4 in. high.	**£8 : 5 : 0**
„ 2.	12 „	9 „	6 „	**11 :10 :0**
„ 3.	15 „	12 „	9 „	**14: 7 : 6**

These Furnaces can be fitted with Pyrometer if desired.

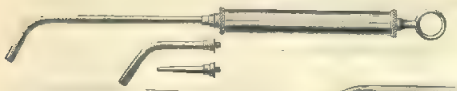
Goods on this Page Carriage Forward.

Bronze Medal, 1884.—Gold Medal, 1890.

Grease Injectors, Petrol Squirts, etc.

No. 1635. **Polished Brass Oil Syringe.**
Size of Cylinders ... ... 8 × 1 10 × 1¼ in.
Price . . .. 2 3 3/- each.

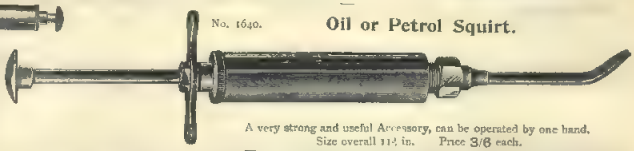
No. 1636. **Petrol Squirt.**
Nickel-Plated.
Price ... ... 1/- each.



No. 1637. **Oil Injector.**
With 3 Brass Connections.
Price . . 2/9 each.

No. 1638. **Grease Injector.** Detachable Spout
Price . 3.-

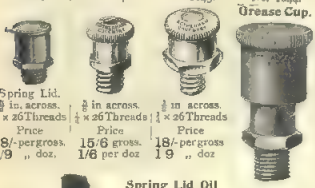
No. 1639
Collapsible Oil Squirt.
When Spout is drawn out it is fixed in end of barrel by screwing.
Price 3.



No. 1640. **Oil or Petrol Squirt.**
A very strong and useful Accessory, can be operated by one hand.
Size overall 11½ in. Price 3/6 each.

Lubricators and Grease Cups for Cycles, Motors, and Light Machinery.

No. 1641. | No. 1642. | No. 1643. | No. 1644. **Grease Cup.**



Spring Lid.
⅜ in. across. | ⅜ in across. | ⅜ in. across.
¼ × 26 Threads | ¼ × 26 Threads | ¼ × 26 Threads
Price | Price | Price
18/- per gross. | 15/6 gross. | 18/- per gross
1/9 „ doz. | 1/6 per doz | 1 9 „ doz

⅜ in. across
⅛ × 18 Threads
Price
6½ per gross
5/6 „ doz.

No. 1645. **Oil Cups.**

	No 1	No 2	No 3	No 4	No 5
Threads	⅛ × 32	¼ × 18	⅜ × 16	⅛ × 24	½ × 26
Price	2/6	3	3 8	4/3	5/3 doz.

No. 1646.

1 in. across.
½ in Gas Thread.
11/3 per doz.
1/- each.

Spring Lid Oil Cups.

No. 1647

⅜ in. across.
⅛ × 18 Threads.
9/6 per doz.
/10 each

No. 1648

⅜ in across.
¼ × 26 Threads.
3/6 per doz.
/4 each.

Oil Cups.

No. 1649.

⅜ in. across.
⅛ × 18 Threads.
6/6 per doz.
-/8 each.

No. 1650

1 in. across.
⅜ × 16 Threads.
9 6 per doz.
-/11 each.

Regulated Feed Grease Cup.
No. 1651.

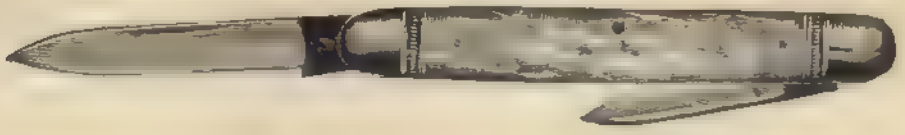
1 in. across.
⅜ × 26 Threads.
12/- per doz.
1/2 each

Bronze Medal, 1884.—Gold Medal, 1890.

POCKET KNIVES

Cuts Full Size

GERMAN



Per Dozen

No. 9772—Two Blades, 3 in. Pearl Handle, Iron Lined, Iron Bolsters $8.00
One-half Dozen in a Box

Per Dozen

No. 3057 Three Blades 3 in Pearl Handle, Brass Lined German Silver Bolsters.. . $8 00
One-half Dozen in a Box

PRESS BUTTON

Per Dozen.

No. 100—Two Blades, 3⅞ in. Stag Handle, Brass Lined, Half Polished $13 00
One-half Dozen in a Box

COMBINATION

Per Dozen

No. 4968—Combination, Two Blades, One Wire Cutter and Cap Lifter, One Cork Screw, 3¼ in. German Silver Handle, Highly Polished..... $24 00
One-half Dozen in a Box

POCKET KNIFE ASSORTMENTS

Per Assortment

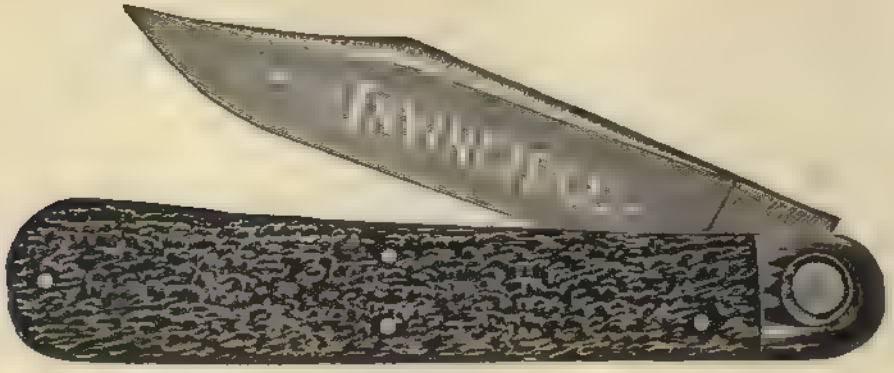
No. 10—Pen Knife Assortment, Two Blades, 2¾ in. Cocobolo Cases, Metal Handles, Twelve Different Designs, in Velvet Lined Box $4 00

HUEY & PHILP HARDWARE COMPANY.

POCKET KNIVES

Cuts Full Size

PRESS BUTTON



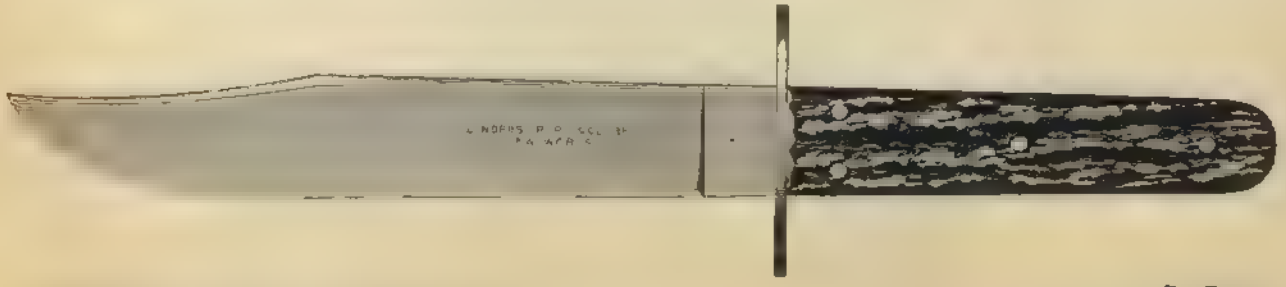
No. 1000

	Per Dozen
No. 310—One Blade, 4 in Stag Handle, Iron Lined, German Silver Bolster, Half Polished	$18.00
No. 1000—One Blade, 4⅞ in. Stag Handle, Iron Lined, Iron Bolster, Half Polished	15.00

One-half Dozen in a Box

HUNTING KNIVES

	Per Dozen
No. 1802—6 in Bevel Clip Blade, Stag Handle, German Silver Guard	$15.00



	Per Dozen
No. 0020—6 in. Blade, Stag Handle, with Guard	$15.00

One-quarter Dozen in a Box

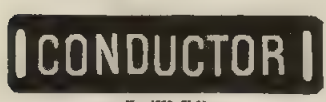
BADGES OF ANY DESCRIPTION MADE TO ORDER

Made of German Silver, Black Enameled Letters.
Illustrations Exact Sizes.
PRICE LIST

No. 4660, $4.50
German Silver

No. 4661, $5.00
German Silver

No. 4662, $3.00
German Silver



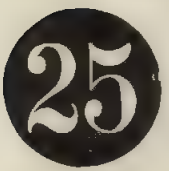
No. 4663, $1.25
German Silver Hat Badge.

No. 4664, $1.25
German Silver Hat Badge.

No. 4665, $2.50
German Silver.

No. 4666, $3.00
German Silver.

No. 4667, $3.50
German Silver



No. 4668, $1.00
German Silver

No. 4669, $3.00
German Silver.

No. 4670, $1.75
German Silver

GROUT'S ELECTRIC FLASHER WATCH SIGNS

PRICE EACH

Grout's No. 400 style sign with six lights outside and two flashing lights inside which are made to flash on and off, thus making the oval glass dials very attractive at night and readable at day. Sign is made of best metal. Hollow oval rims, covered with 22k. gold leaf or aluminum leaf. Style and shape is exactly like the new modern watch cases. Guaranteed first-class in every particular.

Electric sign, oval glass dials, 6 lights outside, 2 lights inside.

426Z—26-inch diameter, gold leaf finish	$100.00
425Z—26-inch diameter, aluminum leaf finish	84.00
426Z—32-inch diameter gold leaf finish	120.00
427Z—32-inch diameter, aluminum leaf finish	104.00

Electric Signs that Attract Attention. They Will Advertise Your Store Day and Night. Order Now.

Grout's No. 402 style sign with spectacle attached and the words Watches, Jewelry and Diamonds on each side, like cut. We can also make this sign and omit the wording on sides if desired. It is very attractive and modern style. Made with swell oval glass or metal dials.

Electric sign, oval glass dials, 2 lights inside.

416Z—26-inch diameter, gold leaf finish	$ 85.00
417Z—26-inch diameter, aluminum leaf finish	70.00
418Z—32 inch diameter, gold leaf finish	104.00
419Z—32-inch diameter, aluminum leaf finish	80.00

Watch sign and metal dials spectacle attached, no lights.

26-inch diameter, gold leaf finish	$ 65.00
26-inch diameter, aluminum leaf finish	50.00
32-inch diameter, gold leaf finish	85.00
32-inch diameter, aluminum leaf finish	70.00

GROUT'S LOUIS XIV ELECTRIC SIGN

We can also Furnish these Signs with Post Attachment so as to Fit on any Post.

Painting Name on Glass Dials, $4.00 Extra.

Painting Name on Metal Dials, $3.00 Extra.

Grout's No. 400 Improved Electric Flasher Sign. Style and shape exactly like the new modern watch cases. Hollow oval metal rims. Plain and finished with best 22k. gold leaf or aluminum. Swell oval shape glass dials that are plain and durable. Illuminated inside by two electric lights, which flash on and off or burn steady. Also made with metal dials.

Electric sign, oval glass dials, 2 lights inside.

400—26-inch diameter, gold leaf finish	$70.00
401—26-inch diameter, aluminum leaf finish	54.00
402—32-inch diameter, gold leaf finish	90.00
403—32-inch diameter, aluminum leaf finish	75.00

Watch sign, oval metal dials, no lights

404—26-inch diameter, gold leaf finish	$50.00
405—26-inch diameter, aluminum leaf finish	35.00
406—32-inch diameter, gold leaf finish	70.00
407—32-inch diameter, aluminum leaf finish	55.00

A very attractive and modern sign. Has new style bow and letters on side like cut. Swell oval metal dials, with three lights on each side. Gilded with best 22k. gold leaf and wired complete to hang or for post style if desired.

700—26-inch diameter, like cut	$52.00
700—30-inch diameter, like cut	70.00
700—36-inch diameter, like cut	80.00

Same sign as above without lights.

This is one of our new styles, very modern and attractive sign. New style bow and lettered on each side like cut or as desired. Swell oval shape metal dials. Finished with best 22k. gold leaf. Guaranteed five years.

710—26-inch diameter	$37.00
710—30-inch diameter	50.00
710—36-inch diameter	80.00

All Electric Signs are Wired and Ready to Put Up Without any Trouble.

Harrington & Richardson

Regular Automatic, Double Action.

3½-INCH BARREL.

9159 32 caliber, center fire, 6 shots, nickel plated, rubber stock, weight 15 ozs. Each **$8.80**
9160 32 caliber, center fire, 6 shots, blued finish, rubber stock, weight 16 oz. Each **$9.50**
9161 38 caliber, center fire, 5 shots, nickel plated, rubber stock, weight, 15 oz. Each **$8.80**
9162 38 caliber, center fire, 6 shots, blued finish, rubber stock, weight, 15 ozs. Each **$9.50**

Premier Small Frame Automatic Bicycle, Double Action.

2-INCH BARREL.

9163 32 caliber, center fire, 5 shots, nickel plated, rubber stock, weight, 11 oz. Each **$13.50**
9164 32 caliber, center fire, 5 shots, blued finish, rubber stock, weight, 11 oz. Each **$14.30**

Hammerless Automatic, Double Action.

2-INCH BARREL.

9165 32 caliber, center fire, 5 shots, nickel plated, 2-inch barrel, weight, 12 oz. Each **$10.40**
9166 32 caliber, center fire, 5 shots, blued finish, 2-inch barrel, weight 12 oz. Each **$11.00**

3-INCH BARREL.

9167 32 caliber, center fire, 5 shots, nickel plated weight, 13 oz. Each **$10.40**
9168 32 caliber, center fire, 5 shots, blued finish, weight 13 oz. Each **$11.00**

3½-INCH BARREL.

9169 38 caliber, center fire, 5 shots, nickel plated, weight about 15 ozs. Each **$10.40**
9170 38 caliber, center fire, 5 shots, blued finish, weight about 15 oz. Each **$11.00**

4-INCH BARREL.

9171 38 caliber, center fire, 5 shots, blued finish, weight 20 oz. Each **$11.60**

Premier Small Frame Automatic Double Action.

3-INCH BARREL.

9172 22 caliber, rim fire, 7 shots, nickel plated, rubber stock, weight, 12½ oz. Each **$8.80**
9173 22 caliber rim fire 7 shots, blued finish, rubber stock, weight, 12 oz. Each **$9.40**
9174 32 caliber, center fire, 5 shots, nickel plated, rubber stock, weight, 11½ oz. Each **$8.80**
9175 32 caliber, center fire, 5 shots, blued finish, rubber stock, weight, 11½ oz. Each **$9.40**

5-INCH BARREL.

9176 22 caliber, rim fire, 7 shots, nickel plated, rubber stock, weight, 14 oz. Each **$10.00**
9177 22 caliber, rim fire, 7 shots, blued finish, rubber stock, weight, 14 ozs. Each **$11.00**
9178 32 caliber, center fire, 5 shots, nickel plated, rubber stock, weight, 14 oz. Each **$10.00**

Pearl Handles for Any of the Above Revolvers, $3.40 Extra.

22 Cal. Revolvers are Adapted for 22 Short or Long Rim Fire; 32 Cal. for 32 S. & W. Short, Center Fire; 38 Cal. for 38 S & W. Center Fire.

Turn Old Rings, Chains, Watch Cases, Etc., Into New Jewelry. We Allow Highest Market Price for Old Gold and Silver.

"THE HOUSE OF QUALITY"

CANDLESTICKS, CANDELABRA, CRUCIFIX.

N911

N910

N912

No. N911. Candlestick, fancy floral base, statuette figure post, fancy design holder, bright and satin gilt finish, 9 in. Each ..... .38

No. N910. Candle Holder, one light, stick and top are made in the fashion of a full blown water lily Base in shape of leaves; very artistic in appearance and design, solid cast, well finished, burnished and gold plated, base 4½ in., height 8¼ in. Each ..... .85

No. N912. Candlestick, 2 lights, 16 in. circle base with embossed wreath all around, a regular antique design, both sides embossed and gold plated with bright rubbed spots. Each 1.50

N913

N979

No. N913. Candelabra, 5 lights, 11⅞ in., arms 12 in across, fancy footed art figure post, arms mounted on a swivel joint and may be turned into any position or collapse. The only adjustable candelabra in the market. Rich gilt finish, ornamental design. Each 2.25

No. N979. Crucifix, 10½ in. high, fancy footed, wreath design cross with Corpus Christi attached, burnished and satin finish, inscription INRI at top. Each ..... .75

HAND PAINTED ART VASES
Splendid Premium Goods

No. N983. Art Vase, 16¼ in. high, fancy work base, handle and spout, gilt finish, china bulb center, shaded tint colors, hand painted Each ..... .90

No. N984. Art Vase, 17 in., top and bottom fancy open work ornamental design, gilt finish pear shape china center, shaded tint color, hand painted flowers. Each 1.00

No. N986. Art Vase, 21½ in., fancy base, art design spout and handle, gilt finish, oval shape china center shaded tint colors with hand painted flowers Each 1.75

No. N987. Art Vase, as above, with an open regular vase top. Each 2.00

HAND PAINTED JARS.
Appropriate Gift and Premium Items.

N988

N989

No. N988. Tobacco or Puff Jar, 4½ in., spun brass top, floral center; hand painted in natural colors Each ..... .35

No. N989. Cigarette or Tobacco Jar, 4½ in., spun brass top, hand painted design of cigarette in natural colors. Each ..... .45

N990

N991

No. N990. Cigar or Cracker Jar, 5 in., plain finish brass top, hand painted rose design in natural colors Each ..... .55

No. N991. Cigar or Cracker Jar, 7 in., plain finish spun brass top, hand painted rose design in natural colors. Each ..... .90

N992

N993

No. N992. Tobacco or Cigar Jar, 7 in., spun brass top, hand painted cigar and scenic design in natural colors; gilts Each ..... .75

No. N993. Cigar or Cracker Jar, 7 in., spun brass top, hand painted peony design. Each ..... .75

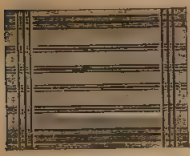
N994

N995

No. N994. Cigar or Tobacco Jar, 7 in., spun brass top, hand painted scenic and pipe design. Each.... .85

No. N995. Art Vase, hand painted floral design in natural colors on all sides; 9¼ in. Each 1.00

LAP DUSTERS



Size 48x60 inches

IMITATION WHIPCORD

Each

No. 50/L—Light Weight Printed Whip Cord, One inch Lay, One Row Stitching; Wt. 8 ozs. $1 50

No. 75/L—Medium Weight Printed Whip Cord One inch Lay with Fancy Brown Cord; Wt. 10 ozs. 1 50

Size 48x60 inches

PLAIN SOLID COLOR MOMIE

Each

No. 10/02X—Plain Dot Momie Weave; Solid Buff Background, Broad and Narrow Green and White Stripes and Border, Buff Knotted Fringe; Wt. 10 ozs. $1 65

Each

No. 10/02X—Light Drab Tapestry Weave Background with Broad Fancy Design; Head Line Border in Drab and Brown, Two Headline Stripes in Brown and Buff, Maroon Knotted Fringe, Weight 10 ozs. $1 65

No. 7/02X—Extra Heavy; Drab Honey Comb Weave; Tapestry Five Line Border, Drab Knotted Fringe; Wt. 20 ozs. 2 20

No. 15/01X—Extra Heavy Tapestry Weave, White and Light Brown Mixture, Cream Knotted Fringe; Weight 15 ozs. 3 85

Loose

GENUINE LINEN

Each

No. 100/L—Plain Drab Linen, Knotted Fringe; Wt. 12 ozs. $1 90

No. 125/L—Fancy Weave, Moire Effect Crash and Green Colors, Green and White Border and Green and White Knotted Fringe, Weight 11 oz. 2 20

No. 200—Extra Large Size Automobile Duster, Plain Linen Color 1¼ inch Hemmed all Around; Wt. 18 ozs. 3 85

Loose

ORIENTAL HAND PAINTED TAPESTRY

Size 48x60 inches

Each

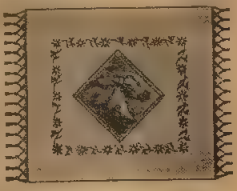
No. 100—Center Painting "Ty Cobb at the Bat" Jacquard Weave; Broad Striped Border Light Drab Background with Three White and Two Heads Inset; Drab Fringe; Wt. 14 ozs. $2 75

Loose

Each

No. 125—Center Painting "Thoroughbreds"; Two Fancy Horse Heads, Light Cream Background Weave, with Broad Jacquard Body Cream and White Heavy Fringe; Wt. 18 ozs. $3 90

Loose



CARRIAGE HEATERS

★DIAMOND HOT BLAST

Operates on the Well Known Hot Blast Principle; is Positively Smokeless and Odorless

The Best Heater for Use in Carriages and Automobiles and for the Comfort of Teamsters, Liverymen, Street Car Motormen, Farmers, Rural Mail Carriers, Skaters, etc.

The Essential Principles Embodied in the Construction of this Heater are as Necessary to Working Qualities as in any Similar Device, the More Burning of the Coal is not all that is Required for Perfect Heat and the Regulation of the Heat, the Proper Insulation Against Burning, Securing the Maximum Amount of Heat at the Minimum Cost of Operation, are some of the Important Features that Enter into its Construction.

DRAFT OR HEAT REGULATOR

Slanting Top Heavy Sheet Steel Frame, Malleable Iron Ends, Finished in Gold Bronze, Asbestos Lined Throughout and Covered with Heavy Red, Blue, or Green Plush; Perforated Sheet Steel Full Drawer Size 10¾x3½x1½ inches; Galvanized Iron Bed for Drawer to Slide on, Steel Spring to Hold Two Cans Apart to Feed Coal and Prevent Overheating by Heat from the Shot Of Lamps. Three Supports Underneath with Slots, the Coal when Low Can Still Burn, Carrying Heat Beneath It. Screws Bolts Together

Per Dozen

No. DHB—For One Person, Length 13½ inches; Width 7 inches, Height 2 inches at Front 4¾ inches at Back; Wt. Each 6¼ lbs $36 20

No. DHBA—For Two Persons; Length 20 inches, Width 7 inches, Height 2 inches at Front, 4¾ inches at Back, Wt. Each 7½ lbs 52 80

Loose

CARRIAGE HEATER COAL

★DIAMOND HOT BLAST

Put up in Cakes; Each Cake will Burn from 12 to 15 Hours, without Flume, Smoke, Gas or Odor; One-third of a Cake is Sufficient for an Ordinary Drive

Per Dozen

No. DC—Cakes 7¼x2½x1¼ inches; Wt. per Doz. 7 lbs. $1 25

One Dozen in a Cardboard Box

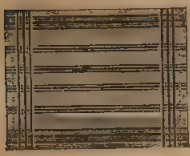
SOAPSTONE FOOT WARMERS

Best Quality Soapstone, 1¼ inches Thick with 3/16 Steel Wire Bail, Galvanized.

No.	810
Size, Inches	8x10
Weight per Dozen, Lbs.	165
Per Dozen	$8 00

One Dozen in a Crate

LAP DUSTERS



Size 48x60 inches

IMITATION WHIPCORD

Each

No. 50/L—Light Weight Printed Whip Cord, One inch Lay, One Row Stitching; Wt. 8 ozs. $1 50

No. 75/L—Medium Weight Printed Whip Cord One inch Lay with Fancy Brown Cord; Wt. 10 ozs. 1 50

Size 48x60 inches

PLAIN SOLID COLOR MOMIE

Each

No. 10/02X—Plain Dot Momie Weave; Solid Buff Background, Broad and Narrow Green and White Stripes and Border, Buff Knotted Fringe; Wt. 10 ozs. $1 65

Each

No. 10/02X—Light Drab Tapestry Weave Background with Broad Fancy Design; Head Line Border in Drab and Brown, Two Headline Stripes in Brown and Buff, Maroon Knotted Fringe, Weight 10 ozs. $1 65

No. 7/02X—Extra Heavy; Drab Honey Comb Weave; Tapestry Five Line Border, Drab Knotted Fringe; Wt. 20 ozs. 2 20

No. 15/01X—Extra Heavy Tapestry Weave, White and Light Brown Mixture, Cream Knotted Fringe; Weight 15 ozs. 3 85

Loose

GENUINE LINEN

Each

No. 100/L—Plain Drab Linen, Knotted Fringe; Wt. 12 ozs. $1 90

No. 125/L—Fancy Weave, Moire Effect Crash and Green Colors, Green and White Border and Green and White Knotted Fringe, Weight 11 oz. 2 20

No. 200—Extra Large Size Automobile Duster, Plain Linen Color 1¼ inch Hemmed all Around; Wt. 18 ozs. 3 85

Loose

ORIENTAL HAND PAINTED TAPESTRY

Size 48x60 inches

Each

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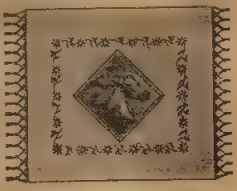
Loose

Each

No. 125—Center Painting "Thoroughbreds"; Two Fancy Horse Heads, Light Cream Background Weave, with Broad Jacquard Body Cream and White Heavy Fringe; Wt. 18 ozs. $3 90

Loose



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Per Dozen

No. DHB—For One Person, Length 13½ inches; Width 7 inches, Height 2 inches at Front 4¾ inches at Back; Wt. Each 6¼ lbs $36 20

No. DHBA—For Two Persons; Length 20 inches, Width 7 inches, Height 2 inches at Front, 4¾ inches at Back, Wt. Each 7½ lbs 52 80

Loose

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One Dozen in a Cardboard Box

SOAPSTONE FOOT WARMERS

Best Quality Soapstone, 1¼ inches Thick with 3/16 Steel Wire Bail, Galvanized.

No.	810
Size, Inches	8x10
Weight per Dozen, Lbs.	165
Per Dozen	$8 00

One Dozen in a Crate

Speed Counters.

No. 363/2. Round Counter.
Half Size.

No. 363/2—Machine Counters.

The No. 2 Size is a very convenient one for application to general machinery for which the No. 1 Size might be found too large or too expensive. The No. 2 Counters have been applied to a great variety of Machines where it is required to keep a record of work performed, as, for instance, Spinning and Paper-making Machines, Tipping, Hoisting, and Loading Apparatus, the larger sizes of Gas and Water Meters, etc., etc.

This size is made with five, six, or seven figures, this size:— reciprocating motion of bold design in **8** fitted with rotary or as required. They are well-finished polished and lacquered brass cases, round or rectangular shape.

Price, with Rotary Motion, as above, 5 figures	...	45/-	Price, with Reciprocating Motion, 5 figures		55/-
,, ,, ,, ,, ,, 6 ,,	...	50/-	,, ,, ,, ,, 6 ,,	...	60/-
,, ,, ,, ,, ,, 7 ,,	...	55/-	,, ,, ,, ,, 7 ,,	..	65/-

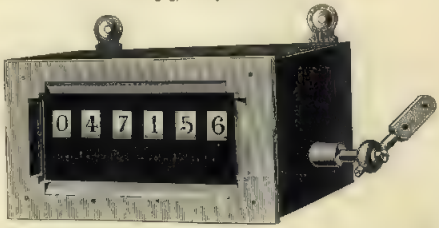
No. 364 2—Machine Counters.

The Reciprocating Counter is fitted with a lever which can be readily connected with any suitable stroke.

The Rotary Counters can be connected to Machinery either by pulley and belt, or by the greatly preferable means of wheels. These may be ordinary spur, bevel, or worm wheels. Care should be taken to use light patterns, proportionate to the size of the Counter.

We shall be pleased to quote at any time for suitable driving wheels -machine-cut or cast

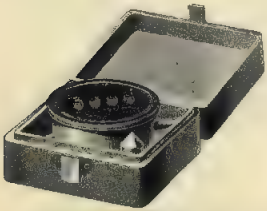
No. 363/2. Square Counter.



Price, with Reciprocating Motion, as above, 5 figures		55/-	Price, with Rotary Motion, 5 figures	45/-
,, ,, ,, ,, ,, 6 ,,		60/-	,, ,, ,, ,, 6 ,,	50/-
,, ,, ,, ,, ,, 7 ,,		65/-	,, ,, ,, ,, 7 ,,	55/-

Circular Pocket Counter.

No 366.



This Size, which is the smallest and cheapest of Counters, has met with numerous applications. No. 3 is a representation (half size) of the Speedometer or Pocket Counter, now so generally and favourably known.

This little Instrument is not intended, like the other patterns of Counters, to be permanently attached to machinery, but is designed for the purpose of ascertaining (watch in hand) the speed per minute of rapidly revolving machinery, by simply applying the steel rubber-faced bit, with which the Instrument is provided, to the centre hole of the shaft, a very slight pressure of the hand being sufficient to transmit the motion of the shaft to the mechanism of the Counter. For use on Spindles a hollow steel rubber-lined bit is provided. It is largely used for testing the speed of Dynamos, Motors, etc.

It is manufactured with great care, and all the chief working parts are of hardened steel, so that it may be used with accuracy at speeds over 5,000 per minute.

Price complete 30/-

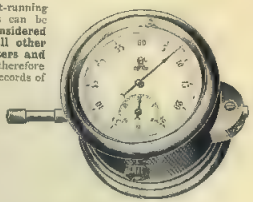
Orders of 20/- and upwards Carriage Paid (with few exceptions).

Combined Revolution Counter and Chronograph (Tachoscope).

No. 359. **For speeds up to 8000 revolutions per minute.**

This is used for closest tests on fast-running machinery. No more reliable apparatus can be obtained, in fact **Tachoscopes may be considered the standard control apparatus for all other types of speed indicators, speed counters and recording speed indicators.** They are therefore indispensable where absolutely accurate records of time and revolutions are of importance.

This apparatus consists of a **Revolution Counter** and an **Anti-magnetic Chronograph,** combined in such a manner that when the spindle is pressed into the centre hole at the end of a revolving shaft, **both counter and chronograph are set going simultaneously:** on the removal of the pressure the action ceases immediately. The number of revolutions and corresponding time may then be read off.



The Chronograph will run for three hours and is wound up by the thumb nut at the side of the case. The long hand registers seconds and fifths, the small hand minutes. By pulling a small trigger both hands are set to zero instantaneously.

The counting gear reads to 9999 and repeats, but in common with all counters with rotating figures it cannot conveniently be reset to zero for each test.

This type with rotating figures is now practically the **standard for accurate tests of revolutions and time.** It will stand daily use for many years without cleaning, provided that it is kept in a dry place.

Price of Tachoscope (in Case with the fittings illustrated) **£4 . 0 : 0**

Hand Tachoscope.

No. 360.

This is for the same purposes as above. It has an anti-magnetic Chronograph movement with a dial counter.

The spindle runs loose and engages the counter and chronograph simultaneously by gentle pressure on the handle.

Two patent lubricators are provided for feeding chronograph oil (of which a bottle accompanies each instrument) to the spindle, which does not run hot at the highest speeds.

These counters are strongly made and of very superior workmanship but very light, weighing only about 11½ oz. They may be used for testing lowest or highest speeds, up to 30,000 revolutions per minute.

Five bits are supplied with each instrument, as illustrated, rendering it practically universally applicable.

Price complete as illustrated, **£6 : 5 : 0**

Plain Watch.

No. 361

Of excellent quality in Oxidised Case. Price **20**

Anti-magnetic Split Second Chronograph and Watch.

For Engineers and Scientists.

No. 362

With start, stop, and fly-back action, reading ¼ seconds with minute recorder up to 30 minutes.

Jewelled in 16 holes.

Lever escapement.

Highly finished.

Price in Oxidised Steel Case ... ... **£2 : 17 : 0**

No. 362½. If with minutes and seconds only. Actions start, stop, and fly-back . . . **2 . 5 . 0**

Speed Counters and Tachometers.

No. 1 Size—Engine Counters—$\frac{5}{8}$ in. Figures.

No. 367.

Quarter Size, from Photo.

Round Engine Counter.

9 in. diameter, $\frac{5}{8}$ in. Figures.

PRICE:

With Porcelain Figure Wheels	£5 : 5 : 0
,, Brass ,, ,,	4 : 4 : 0

The No. 1 Counter with Figure this size:—

0

is the one used for Engines of all kinds. Thousands are at work on Stationary and Marine Engines, Pumping Engines, Newspaper Printing Machines, etc.

They are made in round and rectangular cases (as illustrated—quarter size) of a bold and handsome pattern, which will be found worthy of any engine house. The mechanism in this size is very solid and durable.

No. 368.

Quarter Size, from Photo.

Square Engine Cutter.

10 in. long, $\frac{5}{8}$ in. Figures.

PRICE:

With Porcelain Figure Wheels	£5 : 5 : 0
,, Brass ,, ,,	4 : 4 : 0

For Engines the reciprocating motion is almost always selected on account of the ease with which the counter lever is connected with some part of the valve gear.

Hand Tachometers.

No. 369.

No. 4 Half full size.

Only one spindle for all speed ranges

Spindle fittings need not be shifted when changing from one speed range to another

Change of range effected whilst the Tachometer is in use

The cut across the slider indicates the range in use.

The instrument is not damaged if used on wrong speed range.

Our Hand Tachometers are spring controlled. All the rotating parts are carefully balanced so that correct readings are obtained with the Tachometer held in any position.

They are mounted in black enamelled aluminium alloy cases.

To render these instruments universally applicable each instrument is supplied with suitable accessories, viz. triangular steel point (only with instruments having scale readings under 100 revs. per minute), rubber point and funnel centres, extension bar for the spindle and disc pulley.

The disc pulley is used for determining belt, rope, and periphery speed. A V-shape groove is turned in the edge of the disc pulley or measuring wheel, and where shafts are not easily accessible the measuring wheel can be driven by a thread which is passed round the shaft and runs in the groove of the measuring wheel.

The power absorbed by Hand Tachometers is practically negligible.

Type No.	Dia. of Dial.	Number of Ranges.	Revolutions per minute.	One Scale division—Revs.	Price, complete in case with Accessories £ s. d.
1 c	2$\frac{3}{8}$ in.	1	500—2500	20	3:15:0
3	2$\frac{3}{8}$ in.	3	60—240 200—800 600—2400	2 10 20	5: 5:0
3 a	2$\frac{3}{8}$ in.	3	100—400 300—1200 1000—4000	2·5 10 25	5: 5:0
3 c	2$\frac{3}{8}$ in.	3	300—1200 1000—4000 3000—12000	10 20 100	5: 5:0
4	2$\frac{5}{8}$ in.	4	30—120 100—400 300—1200 1000—4000	1 2·5 10 25	5:17:6
4 b	2$\frac{5}{8}$ in	4	100—400 300—1200 1000—4000 3000—12000	2·5 10 25 100	5:17:6
g 4 a	3$\frac{1}{2}$ in.	4	40—160 125—500 400—1600 1250—5000	·5 2 5 20	8: 8:0

A large and varied Stock of Machines and Tools for Woodworkers.

Stationary Tachometers.

Owing to their construction our Tachometers embody the following ADVANTAGES :—

They show at a glance the exact revolution rate; no watch, no counting, in short, no supplementary aid for timing the speed is required.

The smallest instantaneous speed variations are indicated instantly. The readings are therefore independent of the duration of the test.

They may be driven in either direction.

The power absorbed is negligible.

Ample driving power is available for the indicating mechanism; the scale readings are consequently sharp, exact, and immediately accurate.

All rotating parts are carefully balanced; correct readings are thus obtained with the instruments held in any position.

No. 370.

The Tachometer Cases are cast aluminium alloy, painted and lacquered black. All bright metal fittings are nickel plated and polished.

The Dial Cases revolve round the horizontal axis, and can be supplied either right- or left-hand side of pulley.

Scale Ranges.—The ranges at the ratio of 1 : 4 or 1 : 2 from minimum to maximum reading are standard and those usually adopted, *e.g.* 300—1200 or 600—1200, but ranges at other ratios can be supplied

TACHOMETER			
Diameter of Dial	4½ in	6½ in.	8 ..
PRICE, without Tachometer pulley on base as shown, or with turned plug for use in clamping bush	£5 : 0 : 0	£5 : 10 : 0	£6 : 0 : 0

Flanged Pulley for either Pattern Price

4	6	8	10	12 in
6/-	8/-	10/6	13/-	15. per pair

Driving Belt ¾ in. wide. Price 5 per yard.

No. 371.

The Tachometer Cases are painted and lacquered black. All bright metal fittings nickel plated and polished.

The cases are on circular base, as illustrated, but they can be supplied with a turned plug instead of base, for use in a clamping bush, without extra charge.

The Dial Cases revolve round the vertical axis

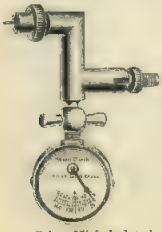
Scale Ranges. The ranges at the ratio of 1 : 4 or 1 : 2 of minimum to maximum reading, *e.g.* 150 - 600 or 300—600, are standard and those usually adopted, but ranges at other ratios can be supplied.

TACHOMETER				
Diameter of Dia.	6½ in	8 in.	10 in.	13 in
PRICE, without Tachometer pulley ...	£6 : 5 : 0	£6 : 15 : 0	£9 : 0 : 0	£10 : 0 : 0
Extra for dial front and back	£0 : 12 : 0	£0 : 15 : 0	£0 : 18 : 0	£1 : 4 : 0

Enquiries or Orders should give the following Particulars: 1. Maximum and minimum speed to be indicated, and normal working speed. 2. Diameter of Driving Shaft or Pulley, unless it is proposed to connect the Tachometer Spindle to the Driving Shaft direct. 3. Normal speed of Shaft from which the Tachometer will be driven

No. 372.

Automatic Tyre Tester.



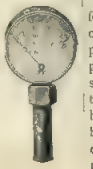
It automatically opens the tyre valve when being screwed on to same, and the gauge instantly records the exact pressure in tyre, and the pointer remains steady at that pressure.

The pump can then be attached and applied without turning any tap or screw.

Price, Nickel plated 12/6

No. 373.

Tyre Tester.



As illustrated.

Price 7/6

No. 374.

Motor Cylinder Compression Tester.

This is one of the best gauges for giving correct compressions in cylinders. Take out the sparking plug and screw in attachment supplied with gauge; the starting handle should then be turned smartly, and the maximum pointer of gauge will be carried round and remain at the highest pressure indicated, and this can be readily put back to zero by means of button attachment on outside of face.

Price 19/6

Contractors to the Home, Indian, and Colonial Governments.

CLARIONETS

Nos. A1040 to A1044.

Henri Farny & Cie Professional Clarionets

French Manufacture. High or low Pitch

We have obtained the agency for the famous Clarionets made by Henri Farny & Cie., Paris (France), who rank among the very best makers, and we are now in a position to offer these excellent instruments at very moderate prices. We guarantee them to be better than any Clarionets at similar prices. The keys are hand-forged and finely finished. Every genuine "Farny" Clarionet is stamped with the name of the maker.

No.		Each
A1040	Eb Grenadilla wood, 13 German silver keys, 2 rings, German silver trimmed, Albert system and trill keys, with grenadilla mouthpiece and German silver reed holder, cork joints	$ 36.05
A1041	C The same	36.05
A1043	Bb The same	36.05
A1044	A The Same	36.05
A1045	Eb Grenadillawood, 14 German silver keys, with 2 rings, German silver trimmed, grenadilla mouthpiece and German silver reed holder, Albert system, double C-sharp key to trill B-natural to C-sharp and C-sharp to D-sharp, cork joints	44.85
A1047	C The same	44.85
A1048	Bb The same	44.85
A1049	A The same	44.85
A1050	Eb Grenadillawood, 16 German silver keys, 4 rings, 4-roller keys, German silver trimmed, grenadilla mouthpiece, German silver reed holder, Albert system, double C-sharp key to trill B-natural to C-sharp and C-sharp to D-sharp, cork joints	53.55
A1052	C The same	53.55
A1053	Bb The same	53.55
A1054	A The same	53.55
A1055	Eb Grenadillawood, 16 German silver keys, 4 rings, 4 roller keys, German silver trimmed, Grenadilla mouthpiece, German silver reed holder, Albert system, with double C-sharp key to trill B-natural to C-sharp and C-sharp to D-sharp, has also additional double Eb key for the little finger of the left hand and G-sharp with first finger of the right hand. A great improvement over the old style	83.45
A1056	C The same	83.45
A1057	Bb The same	83.45
A1058	A The same	83.45

Nos. A1045 to A1049 A1050 to A1054

Boehm System Clarionets

French Manufacture. High or Low Pitch.

A1065	Eb Grenadillawood, 17 German silver keys, 7 German silver rings, German silver trimmed with grenadilla mouthpiece and German silver reed holder	151.20
A1067	C The same	151.20
A1068	Bb The same	151.20
A1069	A The same	151.20

Ebonite Patent Composition Clarionets

This ebonite is a most excellent material for Wood Instruments, as moisture, heat or cold will have very little effect upon it. The splitting to which Wood Instruments are so liable, even if handled with the greatest care is absolutely prevented.

Furnished in High or Low Pitch.

A1080	Eb Ebonite, 15 German silver keys, with 2 rings, German silver trimmed, ebonite mouthpiece and German silver reed holder, Albert system, double C sharp key to trill B-natural to C-sharp and C-sharp to D-sharp, cork joints	78.00
A1082	C The same	78.00
A1083	Bb The same	78.00
A1084	A The same	78.00

NOTE—American or Concert is high pitch, New Standard or International is low pitch.

No. A1115 Eb Alto Clarionet

Buffet, Crampon & Co., Paris

EVETTE & SCHAEFFER, Successors.

No.		Each
A1115	Eb alto, grenadillawood, 13 German silver keys, 2 rings for F-sharp and extra Bb trill key	$288.05
A1116	Bb bass, grenadillawood, 13 German silver keys, F-sharp and extra Bb trill key, padded finger holes	394.45
A1117	Eb alto, grenadillawood, full Boehm system	372.30
A1118	Bb bass, grenadillawood, full Boehm system	488.40

Henri Farny & Cie, Paris

	Eb alto, grenadillawood, 13 German silver keys, 2 rings for F-sharp and extra Bb trill key	248.20
A1150 ½	Eb bass, grenadillawood, 13 German silver keys, 1 sharp and extra Bb trill key, padded finger holes	301.40

REEDS FOR ALTO AND BASS CLARIONETS

No.		Per Doz.
A1116 ½	"Barbu" superior quality, for alto clarionets	$4.35
A1116 ½	"Barbu" superior quality, for bass clarionets	5.30
A1117 ½	Kar, Mayer, finest quality, for alto clarionets	7.10
A1118 ½	Karl Mayer, finest quality, for bass clarionets	7.60
A1119 ½	Buffet, best quality, for alto clarionets, "Soliste"	6.95
A1120 ½	Buffet, best quality, for bass clarionets, "Soliste"	6.60

REVOLVERS.

HARRINGTON & RICHARDSON'S.

BICYCLE, HAMMERLESS
Automatic Ejecting; Double Action; Rebounding Hammer; Rubber Handle; Small Frame
5 SHOTS

Shoots 22 Short or Long Rim Fire Cartridges.
22 CALIBER.

	Each
No. 1222HR—2 in. Barrel, NICKEL PLATED; Weight each about 14 oz.	$7.50
No. 01222HR—2 in. Barrel; BLUED; Weight each about 14 oz.	7.50

Shoots S. & W. Central Fire Cartridges. 32 CALIBER

	Each
No. 1322HR—2 in. Barrel; NICKEL PLATED; Wgt. each 12 oz.	$7.50
No. 01322HR—2 in. Barrel; BLUED; Wgt. each 12 oz.	7.50
	Per Pair
Pearl Handles for above	$2.40

BICYCLE; HAMMER.
Automatic Ejecting, Double Action; Rebounding Hammer; Rubber Handle.

22 CALIBER; Small Frame, 7 SHOTS; Shoots 22 Short or Long Rim Fire Cartridges, or B. B. Caps

	Each
No. 222R—2 in. Barrel; NICKEL PLATED; Weight each 12 oz.	$6.00
No. 0222R—2 in. Barrel, BLUED; Wgt. each 12 oz.	6.50

32 CALIBER; Central Fire; 5 SHOTS; Small Frame; Shoots S. & W. Cartridges.

	Each
No. 322R—2 in. Barrel; NICKEL PLATED; Weight each 12 oz.	$6.00
No. 0322R—2 in. Barrel, BLUED, Wgt. each 12 oz.	6.50
	Per Pair
Pearl Handles for above	$2.40

POLICE; AUTOMATIC EJECTING.
Rebounding Safety Hammer; Shoots S. & W. Central Fire Cartridges.

32 CALIBER; 5 SHOTS
NICKEL PLATED.

	Each
No. 1323½PR—3¼ in. Barrel; Weight each 18 oz.	$6.00
No. 1324PR—4 in. Barrel; Weight each 19 oz.	6.50

BLUED

	Each
No. 01323½PR—3¼ in. Barrel; Weight each 18 oz.	$6.50

38 CALIBER, 6 SHOTS
NICKEL PLATED.

	Each
No. 1383½PR—3¼ in. Barrel; Weight each 18 oz.	6.00
No. 1384PR—4 in. Barrel, Weight each 19 oz.	6.50
No. 1385PR—5 in. Barrel; Weight each 20 oz.	7.00

BLUED

	Each
No. 01383½PR—3¼ in. Barrel; Weight each 18 oz.	6.50
No. 01384PR—4 in. Barrel; Weight each 19 oz.	7.00
No. 01385PR—5 in. Barrel; Weight each 20 oz.	7.20
	Per Pair
Pearl Handles for above	$2.00
Rubber Target Stocks for above	1.00

One in a Cardboard Box.

REVOLVERS.

HARRINGTON & RICHARDSON'S.

HAMMER, AUTOMATIC EJECTING; Double Action Rebounding Lock; Rubber Handle.

Shoots S. & W. Center Fire Cartridges.

32 CALIBER; 6 SHOTS.
NICKEL PLATED.

	Each
No. 3233½R—3½ in. Barrel; Weight each 18 oz.	$6.00
No. 324R—4 in. Barrel; Weight each 19 oz.	6.50
No. 325R—5 in. Barrel, Weight each 20 oz.	7.00

BLUED

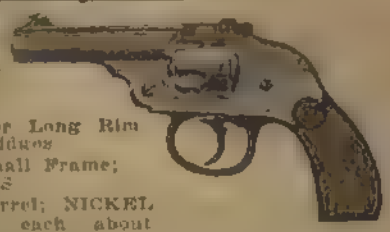
	Each
No. 03233½R—3½ in. Barrel; Weight each 18 oz.	6.50
No. 0324R—4 in. Barrel, Weight each 19 oz.	7.00
No. 0325R—5 in. Barrel, Weight each 20 oz.	7.50
	Per Pair
Pearl Handles, for 32 Caliber	$2.00

38 CALIBER; 6 SHOTS.
NICKEL PLATED

	Each
No. 3833½R—3½ in. Barrel; Weight each 17 oz.	$6.00
No. 384R—4 in. Barrel, Weight each 18 oz.	6.50
No. 385R—5 in. Barrel; Weight each 19 oz.	7.00

BLUED

	Each
No. 03833½R—3½ in. Barrel; Weight each 17 oz.	6.50
No. 0384R—4 in. Barrel; Weight each 18 oz.	7.00
No. 0385R—5 in. Barrel; Weight each 19 oz.	7.50
	Per Pair
Pearl Handles, for 38 Caliber	$2.00



HAMMERLESS, AUTOMATIC EJECTING; Double Action; Rebounding Lock; Rubber Handle.

Shoots 22 Short or Long Rim Fire Cartridges
22 CALIBER; Small Frame; 7 SHOTS

	Each
No. 1223R—3 in. Barrel; NICKEL PLATED; Weight each about 14 oz.	$7.00
No. 01223R—3 in. Barrel; BLUED; Weight each about 14 oz.	$7.50

Shoots S. & W. Central Fire Cartridges

32 CALIBER; Small Frame; 5 SHOTS.
NICKEL PLATED.

	Each
No. 1323R—3 in. Barrel; Weight each 13 oz.	$7.50
No. 1324R—4 in. Barrel; Weight each 14 oz.	7.50
No. 1325R—5 in. Barrel; Weight each 15 oz.	8.00

BLUED

	Each
No. 01323R—3 in. Barrel; Weight each 13 oz.	7.50
No. 01324R—4 in. Barrel; Weight each 14 oz.	8.00
No. 01325R—5 in. Barrel; Weight each 15 oz.	9.00

38 CALIBER; Regular Frame. SHOTS
NICKEL PLATED.

	Each
No. 1383½R—3½ in. Barrel; Weight each 17 oz.	$7.50
No. 1384R—4 in. Barrel; Weight each 18 oz.	7.50
No. 1385R—5 in. Barrel, Weight each 19 oz.	8.00

BLUED

	Each
No. 01383½R—3½ in. Barrel; Weight each 17 oz.	7.50
No. 01384R—4 in. Barrel; Weight each 18 oz.	8.00
No. 01385R—5 in. Barrel; Weight each 19 oz.	8.00
	Per Pair
Pearl Handles, for 32 and 38 Caliber	$2.00
Rubber Target Stocks, for above	1.00

One in a Cardboard Box.

REVOLVERS.

HARRINGTON & RICHARDSON'S.

HAMMER; Small Frame; Rebounding Hammer; Double Action; Rubber Handle.

PREMIER, AUTOMATIC

Shoots 22 Short or Long Cartridges, and BB Caps.

22 CALIBER; 10m Fire; 7 SHOTS

	NICKEL PLATED.	Each
No. 223R	3 in. Barrel; Weight each 13 oz.	$6.00
No. 225R	5 in. Barrel; For Target Practice; Weight each 15 oz.	7.20
	BLUED.	
No. 0223R	3 in. Barrel; Weight each 13 oz.	6.50
No. 0225R	5 in. Barrel; For Target Practice; Weight each 15 oz.	7.50
		Per Pair
Pearl Handles	for above	$2.40

Shoots 32 S. & W. Central Fire Cartridges; 5 SHOTS

	NICKEL PLATED.	Each
No. 323HR	3 in. Barrel; Weight each 11 oz.	$6.00
No. 325HR	5 in. Barrel; For Target Practice; Weight each 13 oz.	7.00
	BLUED.	
No. 0323HR	3 in. Barrel; Weight each 11 oz.	6.50
No. 0325HR	5 in. Barrel; For Target Practice; Weight each 13 oz.	7.50
		Per Pair
Rubber Target Stocks,	for above	$1.00
Pearl Handles	for above	$2.40

SMITH & WESSON

MODEL 1905.

Double Action.

Military and Police, With Square Handle.

Checked Wood Stocks only Furnished with this Model.

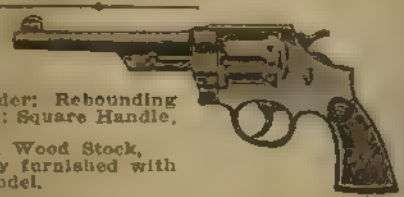
32 W. C. F. CALIBER; 6 SHOTS

	NICKEL PLATED.	Each
No. 8H324	4 in. Barrel, Weight each 1 lb. 13¼ oz.	$34.00
No. 8H326	6 in. Barrel; Weight each 1 lb. 15¼ oz.	34.00
	BLUED.	
No. 8H0324	4 in. Barrel; Wgt. each 1 lb. 13¼ oz.	32.00
No. 8H0326	6 in. Barrel; Wgt. each 1 lb. 13¼ oz.	32.00

38 S. & W. SPECIAL CALIBER; 6 SHOTS.

Adapted to 38 S. & W. Special and 38 Long Colt's (U. S. Service) Cartridges.

	NICKEL PLATED.	Each
No. 8H384	4 in. Barrel; Weight each 1 lb. 11¼ oz.	$34.00
No. 8H386	6 in. Barrel; Weight each 1 lb. 13¼ oz.	34.00
	BLUED.	
No. 8H0384	4 in. Barrel; Weight each 1 lb. 11¼ oz.	32.00
No. 8H0386	6 in. Barrel; Wgt. each 1 lb. 13¼ oz.	32.00
		Per Pair
Pearl Handles		$5.60



MODEL 1908.

HAMMER.

44 Hand Ejector.

Swing-Out Cylinder; Rebounding Lock, Double Action; Square Handle.

Checked Walnut Wood Stock, Natural Finish, only furnished with this Model.

Shoots 44 S. & W. Special and 44 S. & W. Russian Cartridges.

44 CALIBER; 6 SHOTS; BLUED.

		Each
No. 8H0446½	6½ in. Barrel; Weight each 2¼ lbs.	$40.00
Pearl Handles		Per Pair $6.50

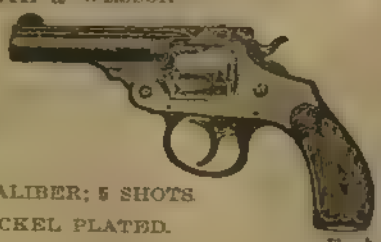
One in a Cardboard Box.

REVOLVERS.

SMITH & WESSON

DOUBLE ACTION, HAMMER

Patent Automatic Ejector, Rubber Handle. Shoots S. & W. Central Fire Cartridges.



32 CALIBER; 5 SHOTS.

	NICKEL PLATED.	Each
No. 323W	3 in. Barrel; Weight each 12¼ oz.	$20.00
	BLUED.	
No. 0323W	3 in. Barrel; Weight each 12½ oz.	24.00
		Per Pair
Ivory Handles		$4.50
Pearl Handles		$2.40
‡Engraving		To Order, $15.00 and Upwards

38 CALIBER; 5 SHOTS; PERFECTED MODEL.

	NICKEL PLATED.	Each
No. 383½W	3½ in. Barrel; Weight each 16½ oz.	$28.00
No. 384W	4 in. Barrel; Weight each 17 oz.	28.00
	BLUED	
No. 0383½W	3½ in. Barrel; Weight each 16½ oz.	26.00
No. 0384W	4 in. Barrel; Weight each 17 oz.	26.00
		Per Pair
Ivory Handles		$3.00
Pearl Handles		2.80
‡Engraving		To Order, $15.00 and Upwards

NEW DEPARTURE; SAFETY HAMMERLESS.

Patent Automatic Ejector; Rebounding Lock; Rubber Handle

Shoots S. & W. Central Fire Cartridges.

32 CALIBER, 5 SHOTS.

	NICKEL PLATED.	Each
No. 1323W	3 in. Barrel; Weight each 14½ oz.	$28.00
	BLUED	
No. 01323W	3 in. Barrel; Weight each 14½ oz.	26.00
		Per Pair
Ivory Handles		$5.00
Pearl Handles		$2.60
‡Engraving		To Order, $15.00 and Upwards

38 CALIBER, 5 SHOTS.

	NICKEL PLATED.	Each
No. 1383½W	3½ in. Barrel, Weight each 16½ oz.	$30.00
No. 1384W	4 in. Barrel; Weight each 20 oz.	30.00
No. 1386W	6 in. Barrel; Weight each 22 oz.	30.00
	BLUED	
No. 01383½W	3½ in. Barrel; Weight each 16½ oz.	28.00
No. 01384W	4 in. Barrel; Weight each 20 oz.	28.00
No. 01386W	6 in. Barrel; Weight each 22 oz.	28.00
		Per Pair
Ivory Handles		$3.00
Pearl Handles		$2.60
‡Engraving		To Order, $15.00 and Upwards

MODEL 1903.

Hand Ejector; Swing Out Cylinder; Solid Frame, Rebounding Lock; Double Action; Rubber Handle.

Shoots 32 S. & W. Long Central Fire Cartridges

32 CALIBER; 6 SHOTS.

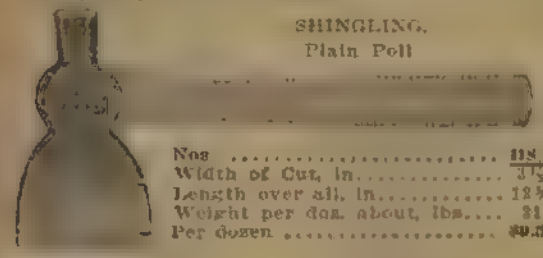
	NICKEL PLATED.	Each
No. 323½NM	3½ in. Barrel; Weight each 18¼ oz.	$28.00
No. 324½NM	4½ in. Barrel; Weight each 19 oz.	28.00
No. 326NM	6 in. Barrel; Weight each 20 oz.	28.00
	BLUED	
No. 0323½NM	3½ in. Barrel; Weight each 18¼ oz.	26.00
No. 0324½NM	4½ in. Barrel; Weight each 19 oz.	26.00
No. 0326NM	6 in. Barrel; Weight each 20 oz.	26.00
		Per Pair
Ivory Handles		$4.00
Pearl Handles		$2.60
‡Engraving		To Order, $15.00 and Upwards

One in a Cardboard Box.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

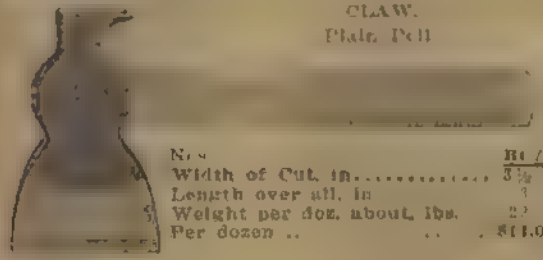
BAY STATE

Forged Steel; Tempered Bit and Hardened Poll; Gold Bronzed Body, with Polished Bit; Hickory Handle. Medium Quality. Not Guaranteed.



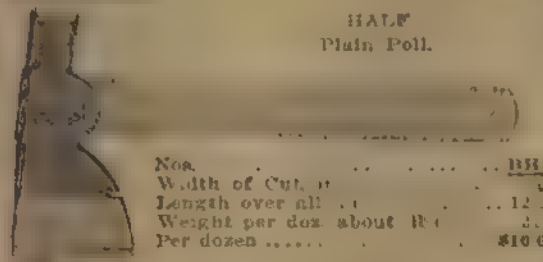
SHINGLING.
Plain Poll

Nos	BS 1	BS 2
Width of Cut, in.	3½	4
Length over all, in.	12¾	14
Weight per doz. about, lbs.	21	24
Per dozen	$9.50	10.00



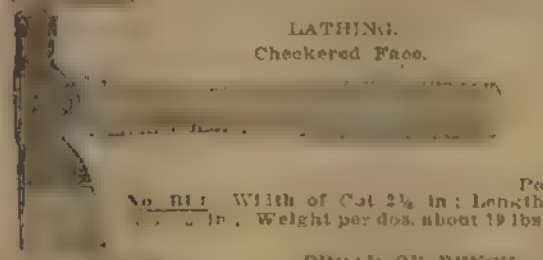
CLAW.
Plain Poll

Nos	BC 1	BC 2
Width of Cut, in.	3½	4
Length over all, in	[illegible]	12½
Weight per doz. about, lbs.	22	24
Per dozen	$11.00	11.50



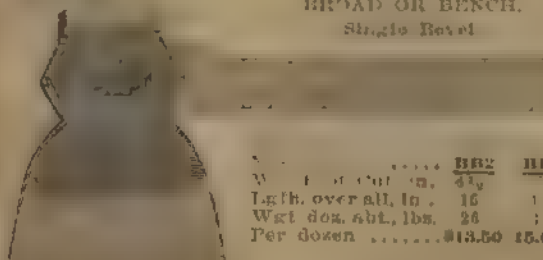
HALF
Plain Poll.

Nos.	BH1	BH2
Width of Cut, in	[illegible]	[illegible]
Length over all, in	12¼	13½
Weight per doz. about lbs.	[illegible]	23
Per dozen	$10.00	11.00



LATHING.
Checkered Face.

Per Dozen
No. BL1—Width of Cut 2½ in.; Length over [illegible] in., Weight per doz. about 19 lbs....$9.50



BROAD OR BENCH.
Single Bevel

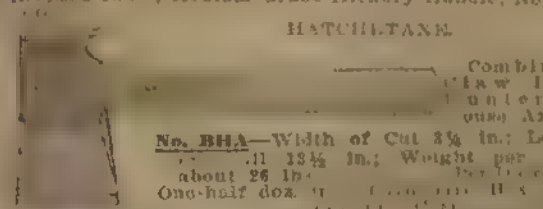
[illegible]	BB2	BB3	BB4
Width of Cut, in.	4½	[illegible]	5½
Length over all, in.	16	[illegible]	17¾
Wgt doz. abt., lbs.	26	[illegible]	34
Per dozen	$13.50	15.00	16.00

One-half doz. in a Cardboard Box; Six doz. in a Case.

BAY STATE

[illegible] Tempered and Polished Poll and Bit; Gold Bronzed Body; Medium Grade Hickory Handle. Not Guaranteed.

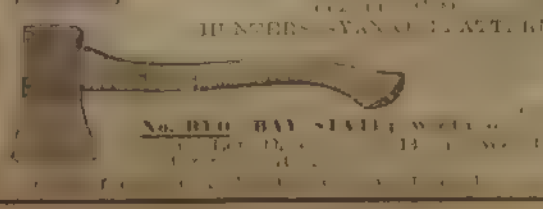
HATCHETTAKE



Combination Claw Hatchet, Hunters' or Pond Axe.

No. BHA—Width of Cut 3½ in.; Length [illegible] 13½ in.; Weight per dozen about 26 lbs. Per Dozen $8.50
One-half doz. in a [illegible]

HUNTERS' OR POND AXE HATCHETTAKE

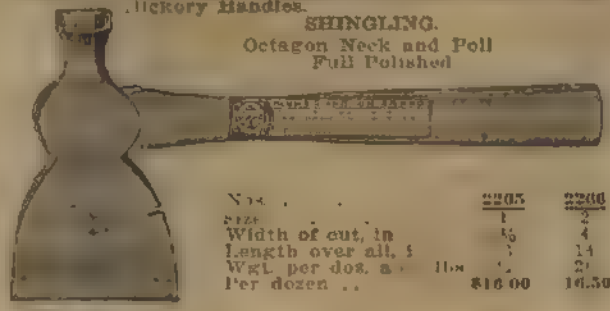


No. BHO—BAY STATE; Width of [illegible] Length over all 13 in.; Weight per [illegible] about 26 lbs. Per Dozen $8.50

F. R. LUMF BRAND

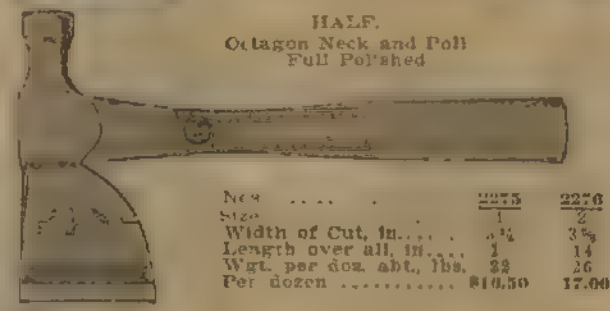
Forged from High Grade Crucible Steel; Polished Eye, Tempered Polished Poll Handled with High Grade White Hickory Handles.

SHINGLING.
Octagon Neck and Poll
Full Polished



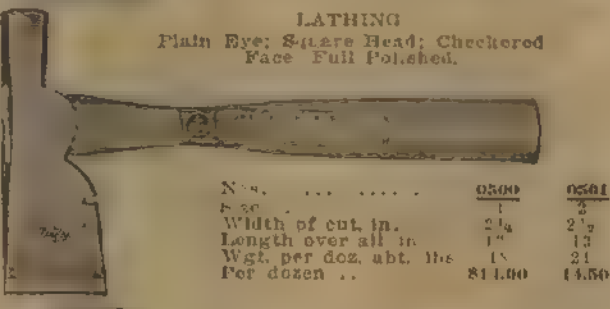
Nos.	2265	2266
Size	1	2
Width of cut, in	3½	4
Length over all, in	[illegible]	14
Wgt. per doz. about lbs	[illegible]	24
Per dozen	$16.00	16.50

HALF.
Octagon Neck and Poll
Full Polished



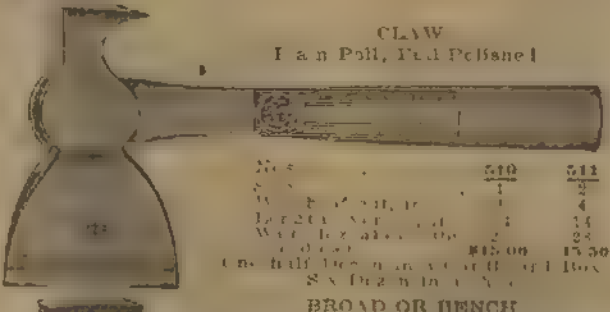
Nos.	2275	2276
Size	1	2
Width of Cut, in.	3¾	3½
Length over all, in.	13	14
Wgt. per doz. abt., lbs.	22	26
Per dozen	$16.50	17.00

LATHING
Plain Eye; Square Head; Checkered Face Full Polished.



Nos.	0500	0501
Size	1	2
Width of cut, in.	2¼	2½
Length over all in.	13	13
Wgt. per doz. abt. lbs	18	21
Per dozen	$14.00	14.50

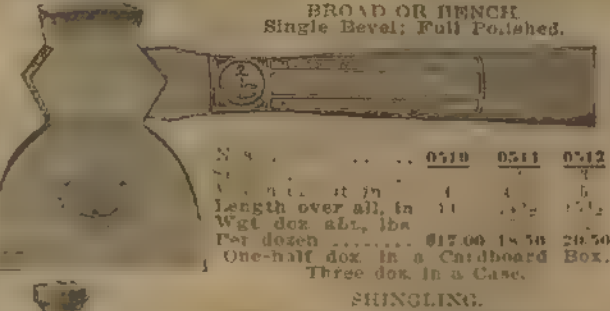
CLAW
Plain Poll, Full Polished



Nos.	510	511
Size	1	2
Width of cut, in	[illegible]	4
Length over all, in	[illegible]	14
Wgt. per doz. about lbs	[illegible]	24
Per dozen	$15.00	15.50

One-half doz. in a Cardboard Box; Six Dozen in a Case.

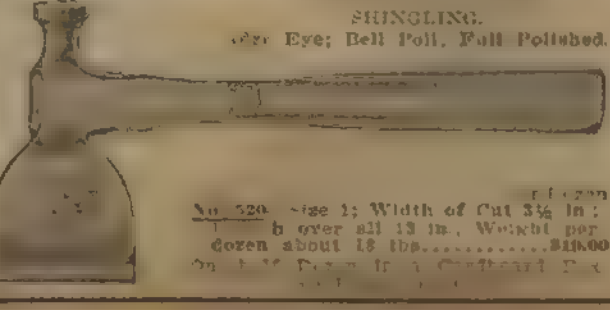
BROAD OR BENCH
Single Bevel; Full Polished.



Nos.	0510	0511	0512
Size	[illegible]	[illegible]	[illegible]
Width of cut, in	4	4½	5
Length over all, in	[illegible]	[illegible]	17½
Wgt doz. abt., lbs	[illegible]	[illegible]	[illegible]
Per dozen	$17.00	18.50	20.50

One-half doz. in a Cardboard Box. Three doz. in a Case.

SHINGLING.
[illegible] Eye; Bell Poll. Full Polished.



Per Dozen
No. 520—Size 1; Width of Cut 3½ in.; Length over all 13 in., Weight per dozen about 18 lbs.....$10.00
One-half Dozen in a Cardboard Box

HATCHETS.

OAK LEAF*—BRONZED.

Special Analysis One Piece Forged Steel; Punched Eye, Extra Tempered Bit, Sharpened Ready for Use; Hardened Poll; Extra Grade White Hickory Handle, FASTENED WITH OUR SIMMONS PATENT WEDGE.

SHINGLING
Plain Poll, Gold Bronzed Body, Polished Bit.

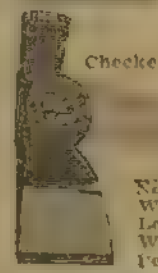
Nos.	KS 0	ES 1	ES 2
Width of Cut, in.	3¼	3½	4
Length over all, in.	13	13	14
Weight per doz. about, lbs.	20	23	25
Per dozen	$8.50	11.00	11.50

HALF
Plain Poll, Gold Bronzed Body, Polished Bit.

Nos.	EH1	EH2
Width of Cut, in.	3¼	3½
Length over all, in.	12½	13½
Weight per dozen about, lbs.	20	23
Per dozen	$11.50	12.50

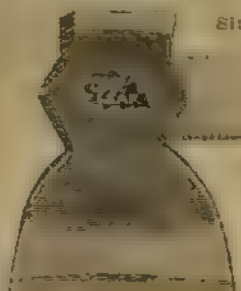
CLAW.
Plain Poll, Gold Bronzed Body Polished Bit.

Nos.	EC 1	EC 2	EC 3
Width of Cut, in.	3	3½	3½
Length over all, in.	13	14	14½
Weight per doz. about, lbs.	22	23	30
Per dozen	$12.50	13.00	13.50



LATHING
Checkered Face, Gold Bronzed Body, Polished Bit

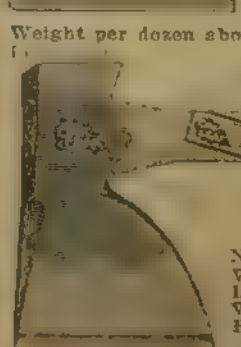
Nos.	EL1	EL2
Width of Cut, in.	2¼	2½
Length over all, in.	12	13
Weight per doz. about, lbs.	18	22
Per dozen	$11.00	11.50



BROAD OR BENCH
Single Bevel, GOLD BRONZED Body, with Polished Bit

Nos.	EB1	EB2	EB3
Width of Cut, in.	4	4½	5
Length over all, in.	13	13½	14
Weight per doz. about, lbs.	29	32	34
Per dozen	$11.00	11.50	12.00

Nos.	EB4	EB5
Width of Cut, in.	5½	6
Length over all, in.	15¼	15½
Weight per dozen about, lbs.	36	41
Per dozen	$18.00	20.00



[illegible] RING
Single Bevel; Gold Bronze Body; Polished Head and Bit.

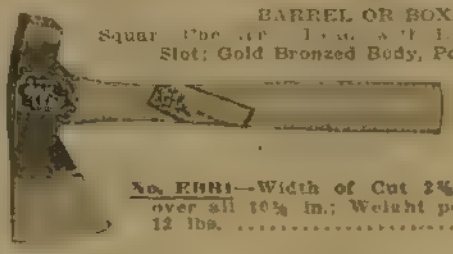
Nos.	EP1	EP2	EP3
Width of Cut, in.	3¾	4½	4
Length over all, in.	14	14½	15½
Wgt., doz. abt., lbs.	24	27	32
Per dozen	$15.00	16.00	18.50

[illegible] half doz. in a Cardboard Box. Two [illegible] in a Case

HATCHETS.

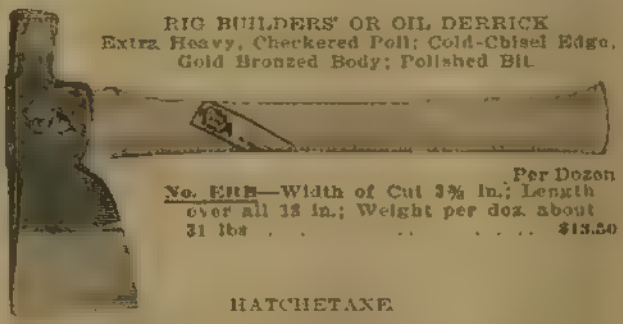
OAK LEAF*—BRONZED.

Special Analysis One Piece Forged Steel; Punched Eye; Extra Tempered Bit; Sharpened Ready for Use, Hardened Poll; Extra Grade White Hickory Handle, FASTENED WITH OUR SIMMONS PATENT WEDGE.



BARREL OR BOX.
Square Pattern [illegible] Extra Long Nail Slot; Gold Bronzed Body, Polished Bit.

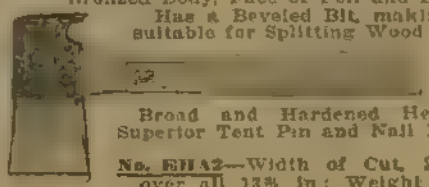
Per Dozen
No. EBB1—Width of Cut 2¾ in.; Length over all 10¾ in.; Weight per doz. about 12 lbs. $10.00



RIG BUILDERS' OR OIL DERRICK
Extra Heavy, Checkered Poll; Cold-Chisel Edge, Gold Bronzed Body; Polished Bit.

Per Dozen
No. EBB—Width of Cut 3⅜ in.; Length over all 13 in.; Weight per doz. about 31 lbs. $13.50

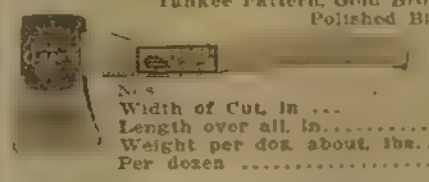
HATCHETAXE
Combination Claw Hatchet and Hunters' Axe; Gold Bronzed Body, Face of Poll and Bit Polished, Has a Beveled Bit, making it particularly suitable for Splitting Wood



Broad and Hardened Head, makes it a Superior Tent Pin and Nail Driver.

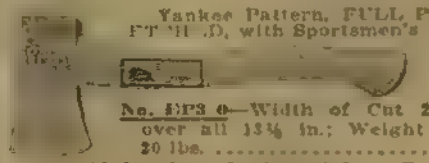
Per Dozen
No. EHA2—Width of Cut, 2¾ in.; Length over all 13¾ in.; Weight per doz. about 26 lbs. $13.00

HUNTERS'
Yankee Pattern, Gold Bronzed Body, with Polished Bit.



Nos.	EY0	EY1
Width of Cut, in.	3	3¼
Length over all, in.	13¾	13⅞
Weight per doz. about, lbs.	31	34
Per dozen	$12.00	12.50

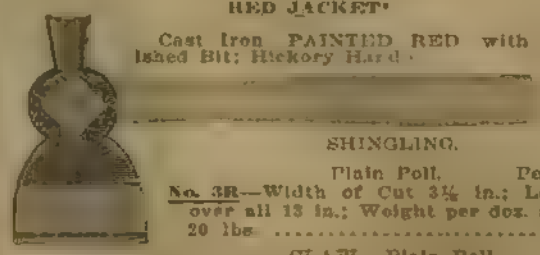
Yankee Pattern, FULL POLISHED AND ETCHED, with Sportsmen's Pattern Handle.



Per Dozen
No. EP3 0—Width of Cut 2¾ in.; Length over all 13¾ in.; Weight per doz. about 20 lbs. $11.00

One-half doz. in a Cardboard Box; Two doz. in a Case.

RED JACKET*
Cast Iron PAINTED RED with Polished Bit; Hickory Handle

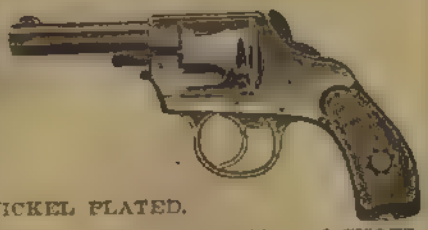


SHINGLING.
Plain Poll. Per Dozen
No. 3R—Width of Cut 3½ in.; Length over all 13 in.; Weight per doz. about 20 lbs. $3.20

CLAW. Plain Poll.
No. 2R—Width of Cut 3½ in.; Length over all 13 in.; Weight per dozen about 20 lbs. $3.50

One-half doz. in a Cardboard Box, Twelve doz. in a Case

REVOLVERS.



Safety Hammer, Double Action, Octagon Barrel, Rubber Handle.

NICKEL PLATED.

32 CALIBER, S. & W. Central Fire Cartridges; 6 SHOTS.

	Each
No. 1322½—2½ IN. BARREL; Weight each 15 oz.	$3.50

38 CALIBER S. & W. Central Fire Cartridges; 5 SHOTS.

	Each
No. 1382½—2½ IN. BARREL; Weight each 15 oz.	$3.50
No. 1384½—4½ IN. BARREL; Weight each 16 oz.	3.60
No. 1386 —6 IN. BARREL; Weight each 17 oz.	4.00
Pearl Handles for above	Per Pair, $2.00

One in a Cardboard Box.

HOPKINS & ALLEN ARMS CO.'s NEW SAFETY POLICE.

New Safety Police, Hammerless Double Action; Automatic Ejecting; Rebounding Lock; Checkered Wood Handle; Central Fire; Shoots S. & W. Cartridges

32 CALIBER; Small Frame; 5 SHOTS.

NICKEL PLATED.

Nos.	1322HP	1323HP	1324HP	1325HP	1326HP
Lgth of Barrel, in.	2	3	4	5	6
Wgt each, lbs.	⅞	⅞	1	1⅛	1⅛
Each	$9.00	9.00	9.50	10.00	10.50

BLUED

Nos.	01322HP	01323HP	01324HP	01325HP	01326HP
Lgth. of Barrel, in.	2	3	4	5	6
Wgt each, lbs.	⅞	⅞	1	1⅛	1⅛
Each	$9.50	9.50	10.00	10.50	11.00

Pearl Handles for Small Frame Hopkins & Allen Revolvers . . . Per Pair $2.50

38 CALIBER; Regular Frame; 5 SHOTS.

NICKEL PLATED

Nos.	1383½HP	1384HP	1385HP	1386HP
Lgth. of Barrel, in.	3½	4	5	6
Weight, each, lbs.	1	1⅛	1¼	1⅜
Each	$9.00	9.50	10.00	10.50

BLUED.

Nos.	01383½HP	01384HP	01385HP	01386HP
Lgth. of Barrel, in.	3½	4	5	6
Weight, each, lbs.	1	1⅛	1¼	1⅜
Each	$9.50	10.00	10.50	11.00

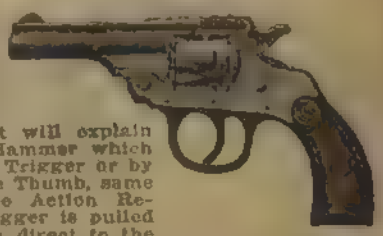
Pearl Handles for Regular Frame Hopkins & Allen Revolvers . . . Per Pair $2.00

One in a Cardboard Box.

By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date and hold your trade at home.

REVOLVERS.

HOPKINS & ALLEN ARMS CO.'s NEW SAFETY POLICE AUTOMATIC EJECTING, DOUBLE ACTION



The principal Feature is the Safety Device, it being impossible to discharge from Striking the Hammer or from Snapping it, unless the Trigger is Pulled.

A glance at the cut will explain the working of the Hammer which cocks either with the Trigger or by Pulling Back with the Thumb, same as any other Double Action Revolver; When the Trigger is pulled the Hammer is driven direct to the Firing Pin and instantly upon releasing the Trigger it rises off the Firing Pin and Rests against the Solid Steel Frame, where it will remain until again called upon for firing purposes.

It also has a New Solid Locking Joint which has a Solid Post and Close Mortise Back-strap and Side Dogs which Bite into Wedge Shaped Grooves, making a Solid Joint that Cannot Shoot Loose.

CHECKERED WOOD HANDLES.

32 CALIBER; Shoots 32 Short or Long Rim Fire Cartridges; Small Frame; 7 SHOTS.

NICKEL PLATED.

Nos.	322HP	323HP	324HP	325HP	326HP
Lgth. of Barrel, in.	2	3	4	5	6
Weight each, oz.	12	13	14	15	16
Each	$8.00	8.00	8.50	9.00	9.50

BLUED

Nos.	0322HP	0323HP	0324HP	0325HP	0326HP
Lgth. of Barrel, in.	2	3	4	5	6
Weight each, oz.	12	13	14	15	16
Each	$8.50	8.50	9.00	9.50	10.00

32 CALIBER; Small Frame; 5 SHOTS; Shoots S. & W. Cartridges.

NICKEL PLATED

Nos.	322HP	323HP	324HP	325HP	326HP
Lgth of Barrel, in.	2	3	4	5	6
Weight each, lbs.	⅞	⅞	1	1⅛	1⅛
Each	$8.00	8.00	8.50	9.00	9.50

BLUED.

Nos.	0322HP	0323HP	0324HP	0325HP	0326HP
Lgth of Barrel, in.	2	3	4	5	6
Weight each, lbs.	⅞	⅞	1	1⅛	1⅛
Each	$8.50	8.50	9.00	9.50	10.00

Pearl Handles for Small Frame Hopkins & Allen Revolvers . . . Per Pair $2.50

32 CALIBER, Large Frame; 6 SHOTS; Shoots S. & W. Cartridges.

NICKEL PLATED.

Nos.	323½LHP	324LHP	325LHP	326LHP
Lgth. of Barrel, in.	3½	4	5	6
Weight each, lbs.	1-3/16	1¼	1-5/16	1-7/16
Each	$8.00	8.50	9.00	9.50

BLUED

Nos.	0323½LHP	0324LHP	0325LHP	0326LHP
Lgth. of Barrel, in.	3½	4	5	6
Weight each, lbs.	1-3/16	1¼	1-5/16	1-7/16
Each	$8.50	9.00	9.50	10.00

38 CALIBER; Large Frame; 6 SHOTS; Shoots S. & W. Cartridges.

NICKEL PLATED

Nos.	383½HP	384HP	385HP	386HP
Length of Barrel, in.	3½	4	5	6
Weight each, lbs.	1¼	1-3/16	1¼	1⅜
Each	$8.00	8.50	9.00	9.50

BLUED

Nos.	0383½HP	0384HP	0385HP	0386HP
Length of Barrel, in.	3½	4	5	6
Weight each, lbs.	1¼	1-3/16	1¼	1⅜
Each	$8.50	9.00	9.50	10.00

Pearl Handles for Large Frame Hopkins & Allen Revolvers . . . Per Pair $2.00

One in a Cardboard Box.

REVOLVERS.

HOPKINS & ALLEN ARMS CO'S WALNUT ARMY GRIP

NEW SAFETY POLICE
HAMMER
Automatic Ejecting,
Double Action.

32 CALIBER; Small Frame; 5 SHOTS; Shoots S. & W. Cartridges.

NICKEL PLATED

Nos.	A3241HP	A3251HP	A3261HP
Length of Barrel, in.	4	5	6
Weight each, lbs.	1	1¼	1¼
Each	$10.50	11.00	11.50

BLUED

Nos.	A03241HP	A03251HP	A03261HP
Length of Barrel, in	4	5	6
Weight each, lbs	1	1¼	1¼
Each	$11.00	11.50	12.00

32 CALIBER; Large Frame; 6 Shots; Shoots S. & W. Cartridges.

NICKEL PLATED.

Nos.	A3241LHP	A3251LHP	A3261LHP
Length of Barrels, in.	4	5	6
Weight each, lbs.	1¼	1-5/16	1-7/16
Each	$10.50	11.00	11.50

BLUED.

Nos.	A03241LHP	A03251LHP	A03261LHP
Length of Barrels, in	4	5	6
Weight each, lbs.	1¼	1-5/16	1-7/16
Each.	$11.00	11.50	12.00

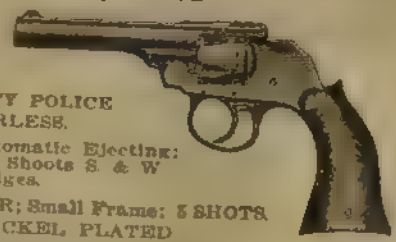
38 CALIBER; Large Frame; 5 Shots; Shoots S. & W. Cartridges.

NICKEL PLATED.

Nos.	A384HP	A385HP	A386HP
Length of Barrel, in.	4	5	6
Weight each, lbs.	1¼	1-5/16	1-7/16
Each	$10.50	11.00	11.50

BLUED.

Nos.	A0384HP	A0385HP	A0386HP
Length of Barrel, in.	4	5	6
Weight each, lbs.	1¼	1-5/16	1-7/16
Each	$11.00	11.50	12.00



NEW SAFETY POLICE
HAMMERLESS.
Double Action, Automatic Ejecting; Rebounding Lock; Shoots S. & W. Cartridges.

32 CALIBER; Small Frame; 5 SHOTS.

NICKEL PLATED

No.	A1324HP
Length of Barrel, inches.	4
Weight each, lbs	1
Each	$11.50

BLUED.

No.	A01324HP
Length of Barrel, inches.	4
Weight each, lbs	1
Each	$12.00

38 CALIBER; Regular Frame; 5 SHOTS.

NICKEL PLATED.

No.	A1384HP
Length of Barrel, inches.	4
Weight each lbs.	1⅝
Each	$11.50

BLUED.

No.	A01384HP
Length of Barrel, inches	4
Weight each lbs	1⅝
Each	$12.00

One in a Cardboard Box

REVOLVERS.

HOPKINS & ALLEN ARMS CO.'S

RANGE MODEL
Double Action, Octagon Barrel.
WALNUT GRIP.

22 Caliber Rim Fire, 7 SHOTS.

NICKEL PLATED

Nos.	RM2241½	RM226
Length of barrel, inches	4½	6
Weight each, oz.	13	14
Each	$6.50	7.00

BLUED

Nos.	RM02241½	RM0226
Length of barrel, inches	4½	6
Weight each, oz.	13	14
Each.	$7.00	7.50

32 Caliber Center Fire, 5 SHOTS; Shoots 32 S. & W. Cartridges.

NICKEL PLATED.

Nos.	RM3241½	RM326
Length of barrel, inches	4½	6
Weight each, oz.	16	17
Each	$6.50	7.00

BLUED.

Nos.	RM03241½	RM0326
Length of barrel, inches	4½	6
Weight, each oz.	16	17
Each	$7.00	7.50

38 Caliber Center Fire, 5 SHOTS, Shoots 38 S. & W Cartridges

NICKEL PLATED

Nos.	RM3841½	RM386
Length of barrel, inches	4½	6
Weight each, oz.	16	17
Each	$6.50	7.00

BLUED

Nos.	RM03841½	RM0386
Length of barrel, inches	4½	6
Weight, each oz.	16	17
Each	$7.00	7.50

One in a Cardboard Box.

SATISFACTION

We buy more goods than any other Hardware concern in the world.
We carry a larger assortment than any other Hardware concern in the world
We sell more goods than any other Hardware concern in the world.
We have more customers than any other Hardware concern in the world.

WHY?

Lowest Prices.
Good Service.
Complete satisfaction of the old-fashioned kind.
We appreciate your business more than any house in the world.

SEND US YOUR MAIL ORDERS.

WASHERS.

HORTON'S GALVANIZED ROTARY.

Galvanized Steel Tub, Corrugated; Sides and Bottom 26 Gauge, Top 24 Gauge; All Joints Double Seamed; Upper Edge Wired; Castings Aluminum Finish; Oak Legs, Secured in Place by Galvanized Bolt and Galvanized Steel Socket, Size 26x44½ in., Diameter of Fly Wheel 19 in., Painted Green, with Bolted Wood Handle; Wood Wringer Box Securely Bolted to Machine; Cypress Lid, Natural Finished and Varnished; Wood Pin Wheel; Stamped Steel Carrying Handles, Riveted; Size of Tub, Inside, 23½x10½ in.; Height over all 38 in.; Spread of Legs 34x24 in.

Per Dozen

No. 18—Weight per dozen (Crated) abt. 840 lbs..$125.00

One-twelfth Dozen in a Crate, Knocked Down.

Made of Selected Clear Grain Cypress, Varnished; Stave Legs Securely Braced with 2 in. Cross Cleats; Three 1¼ in. Steel Hoops; Two Stamped Steel Carrying Handles; Hinged Cover with Malleable Latch and Stamped Steel Lifting Handle; Extra Heavy Wringer Box, Securely Bolted; Solid Hardwood Pin Wheel, Natural Finish.

Solid Malleable Iron Gear Frame; Double Knuckle Joint Movement on Gear Arms and Gearings; Beveled Gear Pinion and Drive Covered with Malleable Iron Shield.

The Double Knuckle Joint Movement on the MIRACLE Machine increases the Force of Movement so that the slightest bearing on the Handle will start the Machine, and when proper Speed is reached the motion of the Fly Wheel actually produces 50% of the Labor required to wash the Clothes, thus making it an exceedingly light running Machine.

All Metal Parts are Gold Bronzed except Fly Wheel, Tub Hoops and Carrying Handles, which are Painted Green.

Inside Measurements of Tub, 22¼ in. Diameter at Bottom, 20⅜ in. at Top, 12¼ in. Deep; Height to Top of Tub 38½ in.; Height to Top of Gear Frame 34⅜ in.; Spread of Legs 27 in.

Owing to the Position of the Knuckle Joint Arms, the Cover on this Machine can be opened without stopping the Motion of the Gearing and Fly Wheel. This Machine can be worked in a sitting or standing position, as the position of the Handle Sockets allow the Operator to take the Handle out of one Socket and put it in the other while the Machine is in Motion.

Per Dozen

No. 22—MIRACLE HIGH SPEED HAND POWER MACHINE; 17 in. Diameter Geared Fly Wheel, with 1¾ in. Face; Weight per dozen (Crated) about 1200 lbs.$158.00

Owing to the Position of the Knuckle Joint Arms, the Cover on this Machine can be opened without stopping the motion of the Gearing, making it unnecessary to stop the Engine or Motor, and therefore does not require a Double Pulley or Reversing Clutch.

No. 22P—MIRACLE HIGH SPEED POWER MACHINE, 8 in. Diameter Geared Pulley Wheel, with 1¾ in. Polished Face; Weight per dozen (Crated) about 1200 lbs.....$158.00

One-twelfth Dozen in a Crate.

No. 1P—Extra Pulleys—Diameter 8 in., Weight per dozen about 60 lbs.....Per Dozen, $20.00

Packed Loose.

NOTE—In Ordering Repair Parts for Washers, be sure to Give the Name of the Manufacturer, the Number of the Machine, the Number on the Castings or Full Description of the Wooden Part Wanted.

WASHERS.

Cut Shows Interior View.

Made of Carefully Selected and Thoroughly Kiln-dried Louisiana Red Cypress, Natural Finish, Varnished. Interior Sides and Bottom Corrugated; Fitted with 2 Heavy Japanned Cast Steel Coil Springs at Bottom of Tub, which Swing the Tub Back and Forth by a Slight Pull on the Handle; 1¾x2½ in. Natural Finish Hardwood Tripod Legs.

Pivot Post, in Center of Tub Holds Perforated and Cleated Scrubbing Board Stationary, which rests closely on Clothes, while Oscillating Motion of Tub works them Back and Forth against it.

The Oscillating Movement of the Tub, moving Alternately in Opposite Directions, causes a Rapid Agitation of the Water and Clothes against the Corrugated Rubbing Surface of the Tub and the Scrubbing Board.

Tub fitted with Three Heavy Steel Hoops; Cleated Cover, with Malleable Iron Handles; All Metal Parts Painted Green; All Inner Parts coming in contact with the Clothes are Heavily Galvanized.

Size of Tub, Inside, 13¾x20¾x23 in.; Height over all 31½ in.; Spread of Base 29 in.

Per Dozen

No. 21—Weight per dozen (Crated) about 755 lbs...$112.00

One-twelfth Dozen in a Crate; Each Machine Securely Wrapped with Cardboard.

WESTERN Gum Wood Mortised, Red Stained and Varnished; Bottom and Inside Corrugated; Wood Pin Wheel; Castings, Black Japanned; Legs 3½x13 in., Secured by Bolts, which Extend Entire Width of Box. Fly Wheel 10 in. in Diameter, with 17 in. Handle. Two 1¾x21 in. Wood Handles on Ends. Sunken Wood Wringer Box.

Per Dozen

No. 2B—SIZE OF TUB, OUTSIDE, 20x26 IN.; Size of Tub, Inside, 18x23½ in.; Size of Sliding Rack 20x14 in. Height over all 26 in.; Spread 53x24 in.; Weight per dozen about 765 lbs..$71.00

No. 3B—SIZE OF TUB, OUTSIDE, 21x27 IN.; Size of Tub Inside, 18½x25½ in.; Size of Sliding Rack 20x14 in.; Height over all 29 in.; Spread 55x25 in.; Weight per dozen about 840 lbs.....$75.50

One-sixth Dozen in a Crate.

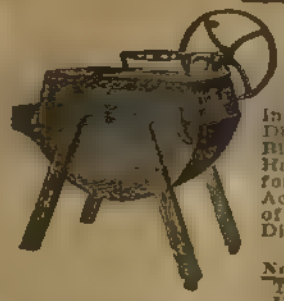
GOOD LUCK

No. 5—GOOD LUCK; Cypress and St. Francis Basin Red Gum Wood; Red Stained and Varnished; Galvanized Iron Bottom, Painted Black on Outside. Removable Corrugated Wood Bottom Rubber; All Castings Black Japanned; Plain Wood Handle; Height of Handle 17 in., Width 19 in.; SIZE OF TUB, INSIDE, 26x19x14 IN.; Height over all 40 in.; Legs 16x2½ in., Nailed; Spread 26x24 in.; Adjustable Pressure according to amount of clothes in Machine; Weight per dozen about 528 lbs. Per Dozen, $48.00

One-twelfth Dozen in a Crate.

NOTE.—In Ordering Repair Parts for Washers, be sure to Give the Name of the Manufacturer, the Number of the Machine, the Number on the Castings or Full Description of the Wooden Part Wanted.

WASHERS.



Cypress Wood, Oak Stained and Varnished; Galvanized Iron Bottom; Outside Castings Black Japanned; Inside Castings Galvanized; Legs 3½x17 in., Bolted, Two having Casters; Diameter of Fly Wheel 18 in.; Black Japanned, with Plain Wood Handle, Bolted; Rim arranged for attaching Wringer; Double Action produced by the working of Two Cylinders in Opposite Directions at the same time.

Per Dozen

No. 36—(Factory No. 1); Size of Tub, Inside, 16¼x27x18½ in., 26x24 in.; Weight per dozen about 1080 lbs.....$126.00

‡No. 37—(Factory No. 2); Size of Tub, Inside, 18¼x28x13½ in., Height over all 32 in.; Spread 12x25 in.; Weight per Dozen about 1140 lbs. $134.00

‡ST. LOUIS

Per Dozen

‡No. 41—Cypress and St. Francis Basin Red Gum Wood; Natural Finish and Varnished Galvanized Iron Bottom Painted Black on Outside Castings Gold Bronze Finish. Rubbers Corrugated, Size of Lower Rubber, Inside 11½x24½ in.; Height over all 44 in.; Spread 19x34½ in., Diameter of Fly Wheel 17 in.; Weight per Dozen about 1650 lbs. $120.00

‡HORTON'S ROTARY

Cypress Wood, Natural Finish and Varnished; Corrugated Inside Wood Pin Wheel 15½ in. Wood Legs, securely Bolted on; Heavy Steel Hoops, Hip Wood Cover with Stamped Steel Handle, Cast Iron Fly Wheel 19 in. in Diameter, Painted Green, with Plain Wood Handle, Wood Wringer Box; Stamped Steel Lifting Handles, securely Bolted

HORTON'S ROTARY; Fitted with Horton's Patent Double Gear Rotary Movement; Size of Tub, Inside, 22½x10 in.; Height over all 38 in.; Spread of Legs 20 in.; Castings, Gold Bronzed.

Per Dozen

‡No. 11—Weight per Dozen about 950 lbs.....$123.00

One-twelfth Dozen in a Crate.

ADVANCE; Red Gum Wood; Painted Red and Varnished, Yellow Striped; Galvanized Iron Bottom, Japanned on Outside Corrugated Mort ised Hardwood Rubbing Surface; Removable Corrugated Wood Bottom Rubber; Hardwood Wringer Box; Plain Hardwood Handle; 1½ in. Legs Nailed to Body.

WITH EAR MOVEMENT.

JAPANNED CAST IRON EARS.

Per Dozen

‡No. 1A—ADVANCE; Large Size, Size of Tub, Inside 28½x18x13 in.; Height to Top of Tub 27 in.; Height over all 42 in.; Spread of Legs 21x24 in.; Weight per dozen (crated) about 600 lbs. $50.00

One-twelfth Dozen in a Crate.

WITH BAIL MOVEMENT

GALVANIZED STEEL BAIL

Per Dozen

‡No. 3A—ADVANCE; Size of Tub, Inside, 28½x18x13 in.; Height to Top of Tub 27 in.; Height over all 42 in.; Spread of Legs 34x21½ in.; Weight per dozen (crated) about 800 lbs.....$52.00

One-twelfth Dozen in a Crate.

‡WASHERS.

IMPROVED WAYNE AMERICAN; Cypress and St. Francis Basin Red Gum Wood; Mahogany Stained and Varnished; Wood Pin Wheel; Castings Gold Bronze Finish; Corrugated Inside, Sides and Bottom, Size of Tub, Inside 22"x11 in.; Height over all 42 in., Detachable Legs, Spread 28x29 in.; Diameter of Gear Wheel 12" in.

Per Dozen

‡No. 5—Weight per Dozen about 830 lbs. $73.50

One-twelfth Dozen in a Crate.

NOTE—In Ordering Repair Parts for Washers, be sure to give the Name of the Manufacturer, the Number of the Machine, the Number on the Castings, or Full Description of the Wooden Part wanted.

‡BALL BEARING COMBINATION

Per Dozen

‡No. 6—BALL BEARING COMBINATION; Cypress and St. Francis Basin Red Gum Wood; Mahogany Stained and Varnished; Galvanized Iron Bottom; Wood Pin Wheel; Castings, Gold Bronze Finish; Corrugated Inside; Size of Tub, Inside, 18½x25½x16½ in.; Height over all 38 in.; Spread 33x24 in.; Weight per dozen (crated) about 920 lbs. $108.00

One-twelfth Dozen in a Crate.

Note.—When Description of Washing Machines gives more than one Finish, Different Styles of Pin Wheels or Different Finishes of Castings, always Specify what is wanted.

Note—In Ordering Repair Parts for Washers, be sure to give the Name of the Manufacturer, the Number of the Machine, the Number on the Castings or Full Description of the Wooden Part wanted

RAPID; CLOTHES.

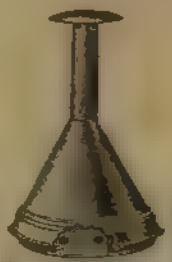
Made of IC Tin; Constructed of Tubes with Holes which introduce Air into the water in such manner that the Suction of the Air in the Water, which is done by Operating Washer Up and Down by Hand, Cleans the Clothes; Bottom of Washer 8 in. in Diameter and 6 in High; Bass Wood Handle, 36 in. Long.

No. RWT—Weight per dozen about 36 lbs. .....Per Dozen, $13.00

One Dozen in a Carton; Handles One Dozen in a Bundle

VACUUM CLOTHES WASHERS.

PERFECTION



Sectional View.

10 Gauge Zinc, Polished; Wired Bottom Rims; Perforated Vacuum Chamber Rim; Lead Weighted Fountain Tube; Fountain Cap, 3 in. in Diameter; All Seams Securely Soldered.

Per Dozen

No. PV—PERFECTION; Diameter at Bottom 9 in. Height over all 12½ in.....$44.00

One-half Dozen in a Crate; Weight per Crate about 20 lbs.

The Perfection Vacuum Clothes Washer is a Great Labor Saver, as it will wash Clothes of any kind in 20 Minutes without Rubbing or Scrubbing. It is made to fit any size Wash Boiler, and being made of Zinc will not Rust or Corrode.

The Washer must be placed in the Center of the Boiler on the Bottom. Enough Water should be put in the Boiler so that after the Clothes have been placed in it, the Water will reach to about 1 in. below the Fountain Head. Add a supply of Shaved Soap or Soap Powder, and place the Boiler on a Hot Stove. As soon as the Water reaches the boiling point it is automatically drawn from the Bottom of the Boiler and discharged in a continuous Stream from the Fountain Head of the Washer. The Rapid Motion caused by the strong power of Vacuum forces 5 Gallons of Hot Soapy Water through the Clothes every minute, so that in 20 Minutes after the Water begins flowing from the Fountain Head, the Clothes will have been washed with One Hundred Gallons of Hot Soapy Water, which has been constantly circulating and forcing its way through every fibre of them, cleansing them thoroughly.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

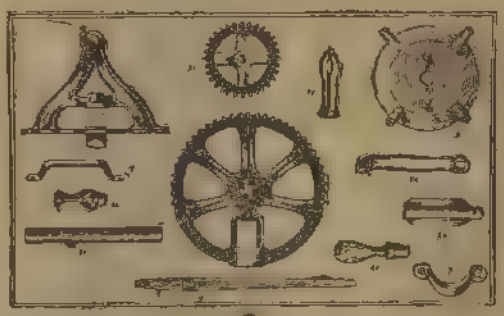
‡FOR HORTON'S WASHERS Nos. 31, 12H, 11 AND 06.

	Each
‡No. 70—Fly Wheel; Weight each about 12 lbs.	$2.00
‡No. A71—Frame; Weight each about 4 lbs. 8 oz.	1.60
‡No. A72—Rock Wheel; Weight each about 2 lbs. 15 oz.	1.20
‡No. A73—Rock Guide; Weight each about 1 lb. 5 oz.	.48
‡No. 71—Rock Pin; Weight each about 6 oz.	.40
‡No. 75—Dasher Piston; Weight each about 7 oz.	.40
‡No. 76—Dasher Weight each about 5 oz.	.16
‡No. 77—Spring Bar; Weight each about 3 oz.	.16
‡No. 78—Thumb Screw; Weight each about 2 oz.	.08
‡No. 79—Top Nut; Weight each about 2 oz.	.08
‡No. 26—Post; Weight each about 1 lb.	.48
‡No. 28—Pin Wheel; Weight each about 3 lbs. 1 oz.	.48
‡No. 29—Lid Hook; Weight each about 2 oz.	.08
‡No. 85—Wear Ring; Weight each about 1 oz.	.08
‡No. 86—Door Button; Weight each about 1 oz.	.08
‡No. 87—Rock Pinion Shaft; Weight each about 10 oz.	.24
‡No. 88—Dasher Piston Shaft; Weight each about 8 oz.	.24
‡No. 89—Bar Shaft; Weight each about 11 oz.	.24
‡No. 7—Spout; Weight each about 3 oz.	.08
‡No. 13—Fly Wheel Handle; Weight each about 4 oz.	.16
‡No. 19—Lid and Tub Handle; Weight each about 2 oz.	.08

Parts for A71, A72 and 28 can be sent cheaper by express. No 70 can be sent cheaper by freight. The others can be sent cheaper by mail. Add one cent per ounce for postage.

Packed Loose

‡FOR HORTON'S WASHERS Nos. 2B AND 3B WESTERN AND No. 4A AMERICAN.

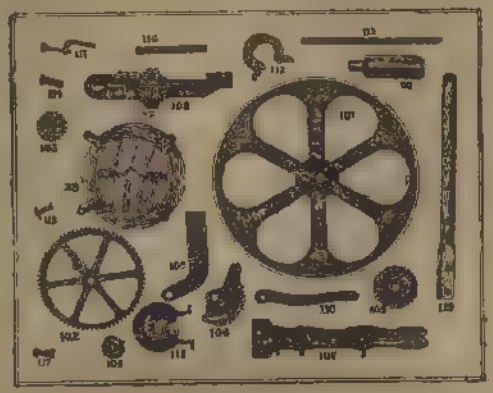


	Each
‡No. 80—Arch; Weight each about 2 lbs. 8 oz.	$0.48
‡No. 81—Small Gear Wheel; Weight each about 15 oz.	.40
‡No. 82—Large Gear Wheel; Weight each about 3 lbs. 8 oz.	.48
‡No. 83—Brace; Weight each about 7 oz.	.24
‡No. 84—Guide; Weight each about 4 oz.	.16
‡No. 85—Post Shaft; Weight each about 8 oz.	.24
‡No. 26—Post; Weight each about 1 lb.	.48
‡No. 28—Pin Wheel; Weight each about 3 lbs. 1 oz.	.48
‡No. 7—Spout for American; Weight each about 3 oz.	.08
‡No. 9—Spout for Western; Weight each about 3 oz.	.08
‡No. 10—Lever; Weight each about 6 oz.	.16
‡No. 19—Handle; Weight each about 2 oz.	.08
‡No. 65—Plug; Weight each about 1 oz.	.08
‡No. 66—Door Button; Weight each about 1 oz.	.08

Parts Nos. 80, 82 and 28 can be sent cheaper by express. The others can be sent cheaper by mail. Add one cent per ounce for postage

Packed Loose

‡FOR HORTON'S WASHERS Nos. 15, S, 16 AND 16X.

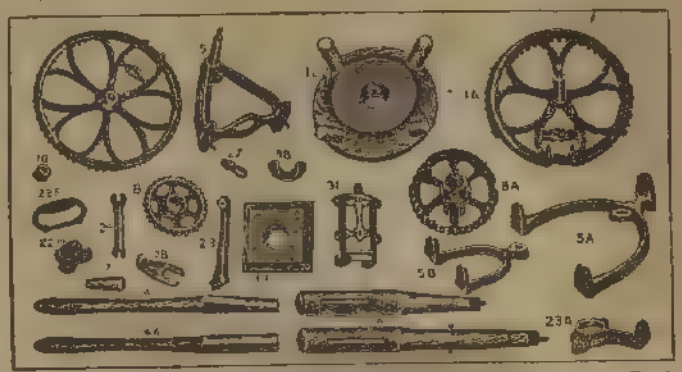


	Each
‡No. 101—Fly Wheel; Weight each about 15 lbs.	$2.00
‡No. 102—Large Gear Wheel; Weight each about 3 lbs.	.64
‡No. 103—Small Gear Wheel; Weight each about 13 oz.	.40
‡No. 104—Rocker Gear; Weight each about 1 lb. 7 oz.	.48
‡No. 105—Large Bevel Gear; Weight each about 1 lb. 5 oz.	.48
‡No. 106—Small Bevel Gear; Weight each about 7 oz.	.40
‡No. 107—Side Frame; Weight each about 4 lbs. 8 oz.	1.60
‡No. 108—Top Frame; Weight each about 3 lbs. 12 oz.	1.20
‡No. 109—Lever Casting; Weight each about 1 lb. 8 oz.	.48
‡No. 110—Pitman; Weight each about 13 oz.	.40
‡No. 111—Lock; Weight each about 6 oz.	.24
‡No. 112—Gear Cover; Weight each about 12 oz.	.32
‡No. 113—Bevel Gear Cover; Weight each about 1 lb.	.40
‡No. 114—Large Gear Stud; Weight each about 3 oz.	.16
‡No. 115—Frame Shaft; Weight each about 1 lb. 1 oz.	.24
‡No. 116—Pin Wheel Shaft; Weight each about 8 oz.	.24
‡No. 117—Large Pitman Pin; Weight each about 2 oz.	.16
‡No. 118—Small Pitman Pin; Weight each about 1 oz.	.08
‡No. 119—Lever; Weight each about 10 oz.	.24
‡No. 36—Galvanized Post; Weight each about 1 lb. 3 oz.	.48
‡No. 28—Pin Wheel; Weight each about 3 lbs.	.48

Part No. 101 sent by freight. Parts Nos. 102, 107, 108 and 28 by express. All other parts by mail. Add one cent per ounce for postage.

Packed Loose.

FOR IMPROVED WAYNE AMERICAN WASHER NO. 5.



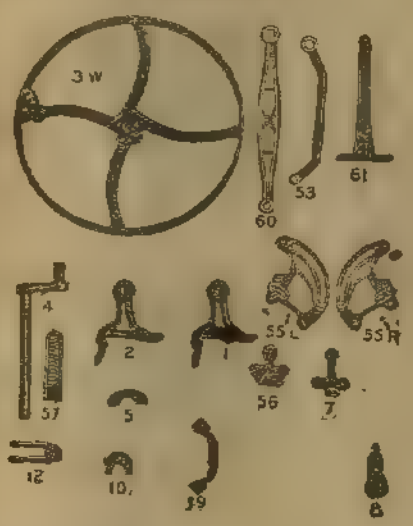
	Each
No. 1—Main Wheel; Weight each about 50 oz.	$0.48
No. 1A—Main Wheel; Weight each about 49 oz.	.48
No. 5—Arch; Weight each about 31 oz.	.48
No. 5A—Arch; Weight each about 37 oz.	.48
No. 5B—Arch; Weight each about 13 oz.	.48
No. 8—Pinion; Weight each about 19 oz.	.38
No. 8A—Pinion; Weight each about 19 oz.	.48
No. 18—Spout; Weight each about 5 oz.	.19
No. 23—Brace; Weight each about 8 oz.	.20
No. 23A—Brace; Weight each about 12 oz.	.48
No. 27—Buttons; Weight each about 2 oz. Per Pair.	.19
No. 28—Wheel Guide; Weight each about 6 oz.	.20
No. 16—Ferrule; Weight each about 2 oz.	.19
No. 24—Wrench; Weight each about 6 oz.	.20
No. 22B—Tub Handle; Weight each about 4 oz.	.20
No. 22B½—Handle Plate; Weight each about 4 oz.	.20
No. 31—Leg Bracket; Weight each about 8 oz.	.48
No. 11—Post; Weight each about 10 oz.	.48
No. 11A—Post; Weight each about 13 oz.	.48
No. 12—Wood Pin Wheel; Weight each about 33 oz.	.52
No. 13—Pin Wheel Cap; Weight each about 7 oz.	.19
No. 14—Long Handle; Weight each about 7 oz.	.48
No. 14A—Long Handle; Weight each about 8 oz.	.48
No. 17—Plug; Weight each about 2 oz.	.19

Packed Loose

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

‡EXTRA PARTS FOR WASHERS.

‡FOR HORTON'S WASHERS Nos. 36 and 37 GLOBE.

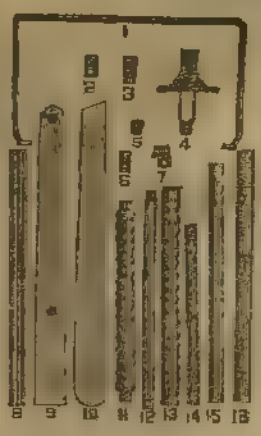


	Each
‡No. 1—Bracket; Weight each about 1 lb.	$0.48
‡No. 2—Bracket; Weight each about 1 lb.	.48
‡No. 3W—Wheel; Weight each about 3 lbs. 10 oz.	1.15
‡No. 4—Crank Shaft; Weight each about 2 lbs.	.64
‡No. 5—Screw; Weight each about 2 oz.	.08
‡No. 7—Lower Pan or Hanger; Weight each about 4 oz.	.24
‡No. 8—Caster; Weight each about 4½ oz.	.24
‡No. 9—Bracket; Weight each about 2 oz.	.13
‡No. 10—Pan or Journal; Weight each about 2½ oz.	.13
‡No. 12—Socket or Coupling; Weight each about 6 oz.	.24
‡No. 13—Handle; Weight each about 3 oz.	.13
‡No. 53—Connecting Rod; Weight each about 7 oz.	.32
‡No. 55R—Hinge (Right Side); Weight each about 9 oz.	.32
‡No. 55L—Hinge (Left Side); Weight each about 9 oz.	.32
‡No. 58—Upper Pan or Hanger; Weight each about 4 oz.	.24
‡No. 59—Stude, with Spring; Weight each about 8 oz.	.40
‡No. 60—Pitman; Weight each about 13 oz.	.32
‡No. 61—Standard; Weight each about 13 oz.	.40

No. 3W (Wheel) and No. 4 (Crank Shaft) can be sent cheaper by express. The others can be sent cheaper by mail. Add one cent per ounce for postage.

Packed Loose.

‡FOR ADVANCE WASHERS No. 1A and No. 3A.

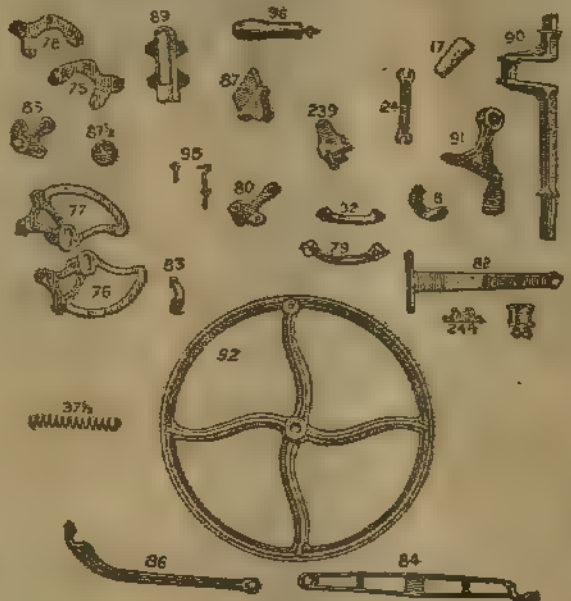


	Each
‡No. 1—Rail; Weight each about 8 lbs.	$0.48
‡No. 2—Tub Catch; Weight each about 2 oz.	.08
‡No. 3—Plug; Weight each about 1 oz.	.08
‡No. 4—Bar; Weight each about 12 oz.	.28
‡No. 5—Ferrule; Weight each about 1 oz.	.08
‡No. 6—Arm Catch; Weight each about 2 oz.	.08
‡No. 7—Rail Clip; Weight each about 2 oz.	.16
‡No. 8—L. H. Rubber; Weight each about 6 oz.	.10
‡No. 9—Arm; Weight each about 17 oz.	.28
‡No. 10—Leg; Weight each about 16 oz.	.28
‡No. 11—Head Rubber; Weight each about 6 oz.	.10
‡No. 12—Axle; Weight each about 5 oz.	.16
‡No. 13—Rubber; Weight each about 6 oz.	.10
‡No. 14—Axle; Weight each about 5 oz.	.16
‡No. 15—Head Rubber; Weight each about 6 oz.	.10
‡No. 16—Handle; Weight each about 8 oz.	.16

Packed Loose

EXTRA PARTS FOR WASHERS.

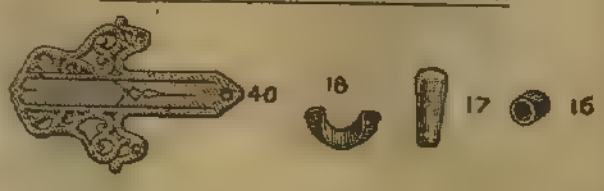
FOR ST. LOUIS WASHER NO. 41.



	Each
No. 18—Spout; Weight each about 5 oz.	$0.19
No. 32—Handle Lid; Weight each about 5 oz.	.19
No. 79—Drawer Pull; Weight each about 5 oz.	.29
No. 80—Basket Gudgeon; Weight each about 5 oz.	.29
No. 85—Upper Gudgeon; Weight each about 6 oz.	.29
No. 87—Castor Bracket; Weight each about 10 oz.	.38
No. 87½—Castor; Weight each about 2 oz.	.38
No. 88—Lower Bearing; Weight each about 4 oz.	.29
No. 89—Elongated Bearing; Weight each about 9 oz.	.38
No. 90—Crank Shaft; Weight each about 30 oz.	.95
No. 91—Crank Bearing; Weight each about 18 oz.	.48
No. 92—Wheel; Weight each about 8¼ lbs.	1.90
No. 239—Pitman Bracket; Weight each about 7 oz.	.48
No. 244—Upper Bearing; Weight each about 5 oz.	.29
No. 37½—Spring	.38
No. 96—Gate Hook and Eye	.19
No. 24—Wrench; Weight each about 6 oz.	.29
Nos. 75-76—Lower-Upper R. H. Hinge; Weight each about 11 oz.	.57
Nos. 77-78—Lower-Upper L. H. Hinge; Weight each about 11 oz.	.57
No. 82—Galvanized Pitman Stand; Weight each about 12 oz.	.76
No. 83—Galvanized Pitman Strap; Weight each about 2 oz.	.19
No. 84—Upper Pitman; Weight each about 12 oz.	.76
No. 86—Lower Pitman; Weight each about 10 oz.	.86
No. 17—Plug; Weight each about 2 oz.	.19
No. 96—Crank Wheel, Handle and Bolt; Weight each about 6 oz.	.38

Packed Loose.

FOR GOOD LUCK WASHER NO. 8.



	Each
No. 16—Ferrule; Weight each about 2 oz.	$0.19
No. 17—Plug; Weight each about 2 oz.	.19
No. 18—Spout; Weight each about 5 oz.	.19
No. 40—Side Box; Weight each about 25 oz.	.48

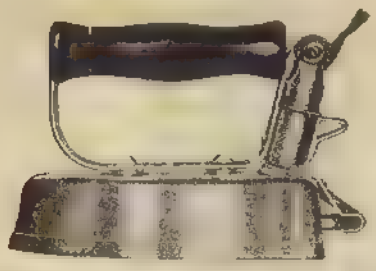
Packed Loose

EACH PART MUST BE ORDERED BY NUMBER AND NAME, ALSO GIVE NAME AND NUMBER OF MACHINE

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

ELECTRIC SAD IRONS

HOT POINT DOMESTIC



Pressed Steel Top, Highly Polished and Nickel Plated
Complete with 8 ft. Asbestos Covered Cord and Attachment Plugs, Attached to Lamp Socket

Weight, Lbs.	3	5	6
Size, Inches	2¾x5¾	3⅝x6¼	4x5⅝
Watts	330	500	575
Each	$3.00	3.50	3.50
	4 50	5 26	5 26

The Electric Iron with the Hot Point, Cool Handle, Attached Stand and Ten Year Guarantee on its heating element.

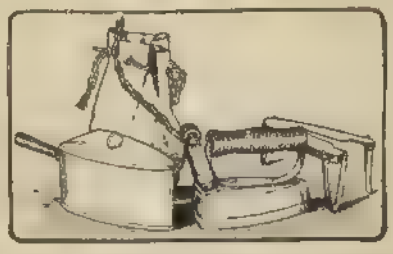
HOT POINT LAUNDRY

Pressed Steel Top, Cast Iron Sole Plate, Heavily Nickel Plated and Highly Polished
Equipped with 8 ft. Extra Heavy Asbestos Covered Cord and Steel Clad Porcelain Switch Plug, Two Deck Stand

Weight, Lbs..	7½	8½	10	12	15
Size, Inches...	7x4½	7x4½	7¼x4⅝	7⅝x4¾	7¾x5¼
Watts	700	700	800	800	900
Each	$5.00	5.50	6.00	8.00	9.00
	7 50	8.26	9 00	12 00	13.50

Requires special wiring. Current controlled by detachable plug. Heating element guaranteed five years

UTILITY OUTFIT



Pressed Steel Top, Highly Polished and Nickel Plated

Complete with 8 ft. Asbestos Covered Cord and Attachment Plug, Attaches to Lamp Socket

	Each
Utility Outfit—Weight 3 Lbs., Size 2¾x5½ in., 330 Watts	$5.00
	7.50

Will do light ironing or curling tongs may be heated in place provided in rear of iron. Inverted and placed on stand it acts as a small stove for heating water, etc. Complete outfit telescopes and fits in ooze leather bag which is furnished with the outfit.

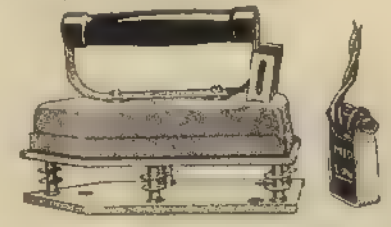
JUMBO

Cast Iron, Heavily Nickel Plated and Highly Polished
Equipped with Regular Handle and Extension Handle in Front, Complete with 8 ft. Extra Heavy Asbestos Covered Cord and Attachment Plug, without Board or Stand.

Weight, Lbs.	25	30
Size, Inches	7x11	7½x12
Watts	1400	1500
Single Heat ....Each,	$18.50	19.50
	27.75	29.25
Three Heat ....Each,	20.50	21 50
	30.75	32.25

Designed for large flat work in hand laundries

HOT POINT TAILORS'



Pressed Steel Top, Cast Iron Sole Plate, Heavily Nickel Plated and Polished
Complete with 8 ft. Extra Heavy Asbestos Covered Cord, Steel Bound Composition Plug and Extension Spring. Current is Controlled by Detachable Plug.

Weight, Lbs.	15	20	25
Size, Inches	3x10¼	3¼x10½	4x12
Watts	850	900	1000
Single Heat .....Each,	$11.00	12.00	13.00
	16.50	18.00	19.50
Three Heat .....Each,	13.00	14.00	15.00
	19.50	21.00	22.50

Built in the regulation goose shape with sharp point and parallel sides. Heating element guaranteed five years

SAD IRONS

ASBESTOS

LAUNDRY

Nickel Plated, Black Enameled Handle

Per Set

No. 70—Set Consists of Two 7 Lb and One 6 Lb. Double Pointed Cores, with 3¼x6½ in Face, Asbestos Lined Hood with Handle and One 6x6 in. Asbestos Covered Stand..$2.80

Weight Per Set 18 Pounds

LAUNDRY

Nickel Plated, Black Enameled Handle

Per Set

No. 100—Set Consists of Two 7 Lb. Double Pointed and One 7 Lb. Square Heel Cores with 3¼x6½ in. Face, Asbestos Lined Hood with Handle and One 6x6 in. Asbestos Covered Stand $3 10

Weight Per Set 19 Pounds

One Set in a Lock Cornered Sliding Cover White Pine Box; Six Boxes in a Case

Per Dozen

No. 71—Extra Hoods, Asbestos Lined, to Fit Nos. 70 and 100 Laundry Irons $10 40

FRENCH SET

Nickel Plated, Black Enameled Handle

Per Set

No. 66—Set Consists of One 4 Lb. Pointed Core, One 2½ Lb. Double Pointed and One 3 Lb. Square Heel Cores, Asbestos Lined Hood with Handle and One Asbestos Covered Stand $1 80

Weight Per Set 9 Pounds

One Set in a Lock Cornered Sliding Cover White Pine Box; Six Boxes in a Case

PRESSING

Nickel Plated, Black Enameled Handle

Each

No. 80—One 9 Lb. Square Heel Core with 3½x7 in Face, Asbestos Lined Hood with Handle and 6x6 in. Asbestos Covered Stand. $2.10

Weight Per Case 35 Pounds

One in a Lock Cornered Sliding Cover White Pine Box; One-quarter Dozen in a Case

FLOUNCE

Nickel Plated, Black Enameled Handle

Per Dozen

No. 50—One 4 Lb. Pointed Core with 2½x6¾ in. Face and Asbestos Lined Hood with Handle.. ....$6 00

Weight Per Case 28 Pounds

One in a Carton; One-half Dozen in a Case

SLEEVE

Nickel Plated, Black Enameled Handle

Per Dozen

No. 40—One 2½ Lb. Double Pointed Core with 2½x4¾ in. Face, Asbestos Lined Hood with Handle and Asbestos Covered Stand..$4 80

Weight Per Case 33 Pounds

One in a Carton; One Dozen in a Case

TOURIST

Nickel Plated, Black Enameled Handle

Per Dozen

No. 10—One 1½ Lb Double Pointed Core with 1⅞x4¼ in Face, Asbestos Lined Hood with Handle and Pressed Steel Stand....$2 20

Weight Per Case 18 Pounds

One in a Carton; One Dozen in a Case

Per Dozen

No. 11—Extra Hoods, Asbestos Lined.....$2.40

HUEY & PHILP HARDWARE COMPANY.

Hunting Knives and Daggers

No. N5350. Hunting Knife, one large 4-in. spear blade, metal handle inlaid with tortoise shell. Pressed bolster with guard corkscrew at back, ring at end. Entire length 9¼ in. Dozen..... .95

No. N5334. Hunting Knife, strong and substantially built, 2-blade jack-knife pattern, open 8½ in. with 3½ in. wear ground clip blade, steel bolster, metal handle, embossed imitation stag, brown finish. Dozen..... .95

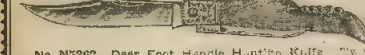
No. N5358. Hunting Knife, closed 4¼ in., with 3½ in. clip blade, very heavy, full ground, well finished, extra heavy polished steel bolster, coco-bolo handle. Dozen 1.45

No. N5605. XLNT Hunting Knife, opened 8½ in., closed 4¾ in., one heavy swedged clip blade, metal handle pressed and colored imitation of stag, lettered XLNT, good finish and workmanship, a big flash and value. Dozen 1.50

No. N5355. Hunting Knife. One razor edge scimitar blade, open 9 inches, best quality high grade steel, polished steel bolster. "Hunter's Own" etched on blade, hole through handle to attach knife to belt, rosewood handle. Dozen... .. . 3.50

No. N5360. Deer Foot Hunting Knife. Full length, 8¾ inches, genuine deer foot handle, spring lock back, brass lined, 4-inch clipper shaped, fine razor steel blade, patent bolster, forming a guard when blade is open. Dozen 7.25

No. N5361. Deer Foot Hunting Knife, one large scimitar blade polished, self-locking, brass guard and bolster, polished steel lined, with strong corkscrew. Genuine deer foot handle with natural hair and polished hoof, 8¾ inches long
Per dozen 7.50



No. N5362. Deer Foot Handle Hunting Knife, two blades one 4 in., the other 2¾ in., self locking when opened, pressing on small blade releases the spring and the large blade shuts, fancy brass bolsters and brass lined genuine deer foot handle, fine polished corkscrew at back. Dozen.....10.75

No. N5368. Deer Foot Hunting Knife, genuine deer foot handle, clipper shape razor steel blade, brass lined, brass hoof plate patent spring back with belt hook, fancy bolster and corkscrew in back. Doz 12.75

DAGGERS.

Dagger, genuine deer foot handle, nickel ferrule steel double guard extra heavy, finely polished steel blades, swaged back on both sides. One of the best values in a deer foot dagger shown. A big flash and shows quality and really good article in itself. Each in cloth covered case with nickel protected point.
No. N5365. 4-in blade, entire length 8½ in Doz **3.20**
No. N5366. 5-in. blade, entire length 9¾ in. Doz **3.70**
No. N5367. 6-in. blade, entire length 10½ in. Doz **4.20**

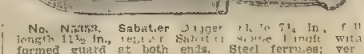
No. N5373. Dagger. Genuine deer foot handle, solid brass metal hoof plate, full size; curved fancy guard and ferrule, each in strong rigid sheath metal tipped, 5½-inch blade Dozen 5.00

No. N5368. Dagger. Full length 10½ inches, blade 6 inches, scimitar shape, razor edge, polished steel, German silver straight guard, riveted stag handle, solid sole leather sheath with belt loop. Dozen .. 5.75
No. N5369. Dagger, 7-inch blade 6.70

No. N5370. Dagger. Full length 8 inches, double polished beveled needle point blade, fancy German silver bolsters and guard, heavy mother of pearl handle 2½ inches, with black leather sheath and belt loop. Dozen 10.50

No. N5371. Bowie Knife. The genuine English steel, 7 inch blade, clip shape, bevel ground, fancy ferrule, genuine deer foot handle, nickel lame plate cap, sole leather sheath with each knife.
Dozen 11.00

HIGH GRADE SABATIER DAGGER.



No. N5353. Sabatier Dagger, 6 to 7¼ in., full length 11½ in., genuine Sabatier spear blade with formed guard at both ends. Steel ferrules; very fine quality French steel, hand forged blade grooved up each side at center, swaged back with a curved point, glazed polish on both sides. A dagger of strictly high quality.
Per dozen 2.00

HOCKEY STICKS.

No. 1—LEAGUE PATTERN; Second Growth ASH, Oil Finish; Weight per dozen about 12 lbs. Per Dozen... $12.50

No. 2—OTTAWA LEAGUE PATTERN Selected ROCK ELM Plain Finish; Weight per dozen about 10 lbs....Per Dozen, $9.50

No. 3—REGULATION PATTERN [illegible] SIZE, Selected ELM, Plain Finish. Weight per dozen about 9 lbs. Per dozen $5.00

HOCKEY PUCKS.

No. 10—SHERIDAN AMERICAN OFFICIAL; Made of the Best Quality Rubber and in Accordance with the Rules of the Hockey Association. Weight per dozen [illegible] lbs. Per Dozen, $8.00

One-twelfth Dozen in a Cardboard Box [illegible] in a Carton.

ICE SKATE TELEGRAPHIC CODE.

SIZES INCHES.

KIND WANTED	8	8½	9	9½	10	10½	11	11½	12
No. 01	Fan	Fan	Fate	Find	Fine	Fine	Fix	Fixt	Fix
No. 03	Fast	Gasp	Gat	Garb	Gem	Gilt	Gilt	Gilt	Gilt
No. 1		Gas	Hasp	Hay	Heal		Hay	Hay	Hay
No. 2		Idle	Imp	Index	Insist	Insist	Insist	Insist	Insist
No. 2½			oil	Jam	Jilt	Jilt	Jilt	Jilt	Jilt
No. 3			Jilt	Jeer	Jest	Jest	Jest	Jest	Jest
No. 05			Dirk	Dare	Draf	Dance	Dare	Dare	
No. 06	Tick	Tick	Tick	Tick	Tick	Tick	Tick	Tick	
No. 07	Wet	Wed	Wet	Wish	Wish	Wish	Wish	Wish	Wish
No. 7		Odd	Odd	Odd	Odor	Odor	Odor	Odor	
No. 8					Fel	Fel	Fel		
No. 8½									
No. 9							Jury	Just	
No. 9½						Kiss	Kiss	Kiss	Kiss
No. 10						Kit	Kit	Kit	Kit
No. 10½							Quit	Quit	
No. 11						Lid			
No. 11½			Pick	Pick	Pick	Dip	Pick	Pick	Pick
No. 12						Dirt	Dirt		
No. 12½									
No. W100						Concerto	Concerto	Concerto	
No. W150						Cordial			
No. 3 0	Used	Aore	Absent	Abuse	Cordation		Cordation		
No. 2 0	Abbey	Abbot	Abhor	Abode	Abuse	Abound	Abut		
No. 1 0	Boat	Bake	Balance	Bald	Ballot	Banana	Bung		
No. 500		Case	Canal	Card	Carol	Cave	Chat		
No. 600		Damsel	Dandy	Dark	Deer	Defy	Detain		
No. 650						Organ	Orient		
No. 660						Quadrent	Quaff		
No. 2160					Bird	Bible	Biceps		
No. 700						Devoid	Daisy		
No. 2180						Flute	Foam		
No. C11						Finger	Filter		
No. 250							Ebony		
No. 930					Haggle	Hag	Hail	Hat	
No. 940					Idea	Idol	Ignite		
No. 980					Made	Male	Main		
No. 1160					Barking	Barmaid	Barrier	Barmaid	
No. 1260					Batabel	Batalege	Bateless	Batful	
No. 1380					Boohy	Bore	Boost	Back	
No. 2080					Acute	Adage	Adept	Affect	
No. 25				Lamb	Lapse	Lap	Lack	Late	
No. 9625				Reel					
No. 12501				Horn					
No. 270				Weight	Whale	Wig			
No. 10				Mitten	Mouse	Mine			
No. 4001				Betray	Bedew	Beloco			
No. 11				Nape	Nurb	Nancy			
No. 650				Pond	Plum	Pear			
No. 690									

KIND WANTED	14	16	18
No. W200		Connect	Consecrate
No. W250		Constitute	Constant
No. 0		Kelter	Kindred

NUMBER OF PAIRS WANTED

	Sail	1 Pair	Sell
	Sat	20 Pair	Sent
	Sake	25 Pair	Sham
	Sand	30 Pair	Shoe
3 Pair	Sap	40 Pair	Silk
4 Pair	Sash	40 Pair	Sire
	Scab	45 Pair	Slay
	Sear	50 Pair	Sole
	Seed	60 Pair	Span

NUMBER OF PAIRS WANTED

75 Pair	Spray	$50 Pair	
100 Pair	Spill	500 Pair	
125 Pair	Spot	750 Pair	
150 Pair	Spot	800 Pair	
200 Pair	Spring	1000 Pair	
250 Pair	Stack	1500 Pair	
300 Pair	Strong	2000 Pair	
350 Pair	Stove	3000 Pair	

DIRECTIONS HOW TO USE.

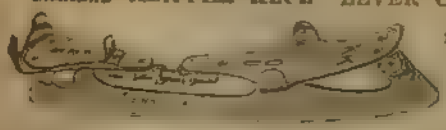
Before writing the Telegram, write the order you wish to Telegraph for, then refer to Code and put down the words to correspond with Number, Size and Quantity desired.

EXAMPLE—"Express" or "Freight" (as desired). Sham, Fly Sear; Fa [illegible] Sell [illegible]

[illegible] DESTINATION. Express or Freight: 40 Pair No. 01 11 inch; 10 Pair [illegible] No. 1 [illegible] No. 2 [illegible]

ICE SKATES.

SIMMONS KLIPPER KLUB. LEVER CLAMP, RINK



Sizes: 8½, 9, 9½, 10, 10½, 11, 11½, 12 inches.

Welded and Tempered Steel Runners, Hollow Ground, Set and Sharpened

No. 3—NICKEL PLATED and Buffed Runners, Foot Plates and Levers.. Per Pair $3.60

Sizes 8½, 9, 9½, 10, 10½, 11, 11½, 12 inches.

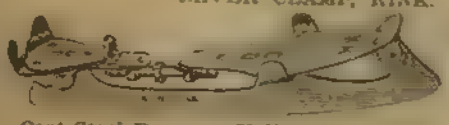
Hardened Steel Runners, Hollow Ground, Set and Sharpened

Per Pair

No. 1—POLISHED Runners and Levers, Blued Foot Plates $1.80

No. 2—NICKEL PLATED Runners, Foot Plates and Levers 2.30

SIMMONS KLIPPER KLUB. LEVER CLAMP, RINK.



Sizes: 8, 8½, 9, 9½, 10, 10½, 11, 11½, 12 inches.

Cast Steel Runners, Hollow Ground, Set and Sharpened.

Per Pair

No. 01—POLISHED Runners and Levers, Blued Foot Plates $1.20

No. 03—NICKEL PLATED Runners, Foot Plates and Levers 1.50

No. H85

HOCKEY RIB RUNNER PATTERN; FULL KEY FASTENING.

Flanged Runners, made from Welded Steel (Laminated), Hardened and Tempered. All Other Parts made from Special Cold Rolled Steel; Entire Skate Polished, NICKEL PLATED AND BUFFED.

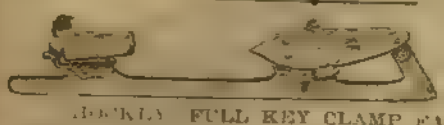
Sizes, 10, 10½, 11, 11½, 12 inches.

Per Pair

No. H85—Men's and Boys' $3.50

Sizes 8½, 9, 9½, 10, 10½ inches

No. H85L—Narrow Toe and Heel Plates, for Ladies. 3.50



Sizes 10, 10½, 11, 11½, 12 inches.

HOCKEY FULL KEY CLAMP FASTENING.

NICKEL PLATED AND BUFFED. Cold Rolled Steel Plates and Clamps, Flat Bottom Runners.

Per Pair

No. H30—COLD ROLLED STEEL. Best Rolled Cast Steel Runners $2.20

No. H42—Hardened Steel Runners 3.00

No. H45—Welded Steel (Laminated), Hardened and Tempered Runners 4.40

FULL KEY CLAMP, RINK.

Sizes: 10, 10½, 11, 11½, 12 inches.

Per Pair

No. 22—Cast Steel Runners; NICKEL PLATED Foot Plates and Runners $2.20

No. 211—Cast Steel Runners; POLISHED Runners and Foot Plates 1.40

One Pair in Cardboard Box; Weight per Pair about 2½ lbs.

ICE SKATES.

SIMMONS KLIPPER KLUB.

Sizes 10, 10½, 11, 11½, 12 inches.

DUTCH FLYER; LEVER CLAMP.

With Curved Runners, adapted for Speed and Figure Skating not requiring Toe Movements.

No. F10—Best Rolled Cast Steel Runners, Entire Skate NICKEL PLATED and Buffed.. Per Pair, $3.60

Sizes: 10, 10½, 11, 11½, 12 inches

[illegible] LEVER CLAMP.

No. R20—Best Rolled Cast Steel Runners; All Other Parts made from Cold Rolled Steel; Entire Skate NICKEL PLATED AND BUFFED Per Pair $3.60

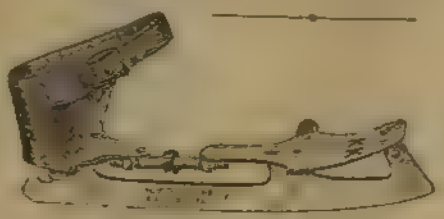
LADIES

Sizes: 8, 8½, 9, 9½, 10, 10½, 11, 11½ inches.

HEEL AND TOE STRAP, RINK.

Cast Steel Runners, Hollow Ground, Set and Sharpened

No. 05—POLISHED RUNNERS; Blued Steel Foot Plates; Russet Leather Heel and Toe Straps; Double Toe Straps; Nickel Plated Heel Bands ..Per Pair, $1.54



Sizes 8, 8½, 9, 9½, 10, 10½, 11, 11½ inches

LEVER CLAMP, HEEL STRAP, RINK.

Cast Steel Runners, Hollow Ground, Set and Sharpened; Russet Leather Heel Straps

Per Pair

No. 06—POLISHED RUNNER and Levers, Blued Steel Foot Plates; Nickel Plated Heel Bands.. $2.00

No. 07—NICKEL PLATED RUNNERS, Foot Plates, Levers and Heel Bands 2.40

Sizes: 8½, 9, 9½, 10, 10½, 11, 11½ Inches

LEVER CLAMP, HEEL STRAP, RINK.

Hardened Steel Runners, Hollow Ground, Set and Sharpened; Russet Leather Heel Straps.

No. 7—NICKEL PLATED RUNNERS, Foot Plates, Levers and Heel Bands..... Per Pair, $3.40

Sizes 9, 9½, 10, 10½, 11 Inches

KEY CLAMP, HEEL STRAP, HOCKEY.

Welded Steel (Laminated), Hardened and Tempered Runners; All Other Parts made from Cold Rolled Steel; Russet Leather Heel Straps.

No. H45L—ENTIRE SKATE NICKEL PLATED and Buffed. Per Pair $5.00

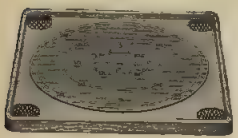
One Pair in Cardboard Box; Weight per Pair about 2½ lbs.

COMBINATION GAME BOARDS

PRICES EACH

NO. 1 CROWN COMBINATION GAME BOARD, EACH $8.70

Carrom Side



Crokinole Side

This board has had a phenomenal sale, owing to its attractiveness, number of games, quality of games, fine finish and general elegance. Sixty-five of the best games known to the game board world can be played upon it. You make no mistake in handling the No. 1 Crown Combination Game Board as it is the standard by which all others are measured. It will be more extensively sold than ever before and the outlook for an immense sale was never brighter. Ever since its first appearance it has been a prime favorite with the amusement loving public and it is destined to hold its place in popular esteem for a long time to come. We have improved it wonderfully by adding to it **Our Patent Felt Cushion and Ring Pocketing Device,** making it everything that the heart can desire.

The crokinole panel is fine imitation mahogany finish and the balance of the board is white maple, natural wood finish. Board is 29 inches square with round corners. Deep, reversible net pockets. The centers are three-ply veneer, light, yet very strong. The entire board is left with an elegant rub finish.

Following is a List of Games Played upon this Board:

The Spider and Flies	Crokinole	Cue Pocket
Carroms	Seven Battles	Rotation Cue Pocket
Traveling Carroms	Ditch Crokinole	Backgammon
Crown Castle	Ring Post Crokinole	Tric-Trac
Walk Around the Castle	Three Ring Glance	Sixty-Six
Penning the Pigs	Four Ring Glance	
Cue Ring	Chinese Glance	

Also the 45 Ringarang Spinning Games.

81 Pieces of Equipment go with this Board as follows. 29 Hardwood Rings in four colors, beautifully stained and polished, 19 Spider and Flies Men in three colors, 2 Cues, 15 Numbered Discs, 10 Tenpins, 1 Backstop, 1 Score Tab, 4 Metal Spinning Rings in two colors, 1 Complete Rule Book and 1 Box for the Equipment.

Each board is packed separately in a carton.

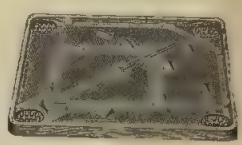
THE IDEAL BASEBALL COMBINATION GAME BOARD. EACH $9.60

THE IDEAL BASEBALL GAME

Trade Mark

The National Game was never so popular as now and this board will fill a long felt want as it gives the fans a chance to amuse themselves with their favorite game. All plays of the regulation game are possible and it furnishes an untold amount of amusement and enthusiasm.

The Pitching Apparatus will throw the ball with either an in or out shoot adding that excitement and uncertainty to the game which is so dear to the hearts of all American baseball fans. The ball is batted and fielded and the bases run the same as in the regulation game. The game can be played by from two to eighteen players and is sure to fill the hearts of the youngsters with delight. It is durable, attractive and not liable to get out of order.



Baseball Side

Carrom Side

CARROM SIDE OF IDEAL COMBINATION GAME BOARD

The Carrom Side of the Ideal Combination Game Board is on the reverse side of the Baseball Game as shown in the illustration. It is clean and wholesome and its countless variations make it a constant source of keen delight to both old and young.

More than twenty-five interesting games can be played upon this side of the board which are fully described in rule book. Indications all point to the fact that Carroms in combination with the new Ideal Baseball game will prove the most popular board ever placed on the market.

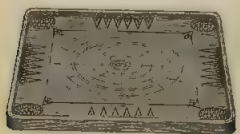
Full equipment for playing all of the games will be furnished with this board and it will go to the customer complete in every way.

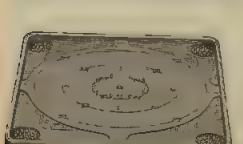
Each board packed separately in pasteboard carton.

4-SURFACE CROWN COMBINATION GAME BOARD, EACH $13.05

This board is an inexhaustible mine of entertainment and amusement. It is the only game board ever made with four playing surfaces, and is practically two game boards for the price of one as the crokinole panel is reversible, giving an invaluable opportunity for an intensely interesting variety of games. With an ordinary board players can be playing games on either side of the other part.

One Hundred Separate and Distinct Games can be played upon this Board, making it attractive and a good seller. These games include all of the old favorites, with many that are now and peculiar to the board. It is immensely popular, many thousands being sold last season. It is a staple article in the game board line.





List of 100 Games Played on the 4-Surface Game Board:

The Spider and Flies	Cue Pocket	Twelve Men Morris	Shovel Board
Carroms	Rotation Cue Pocket	Tre-ko	Childress
Traveling Carroms	Backgammon	Ten-Pins	Double Entry Posting
Crown Castle	Tric-Trac	Nine-Pins	Pocket Bagatelle
Walk Around the Castle	Sixty-six	Cocked Hat	Column Crokinole
Penning the Pigs	Kedo	Nenkra	Column Carroms
Cue Ring	Zelto	Five Pin Cuban Carroms	Pocket Column Carroms
Crokinole	Cycle Race	Chasing the Cat	Pentuque
Seven Battles	Fox and Geese	Billiardette	Carromette
Ditch Crokinole	Cats and Mice	Pyramid Checkers	Knock Out
Ring Post Crokinole	Wedn	Diagonal Checkers	Checkers
Three Ring Glance	Cradu	Give Away	Chess
Four Ring Glances	Oblique Checkers	Shooting the Wild Ducks	Crosinola
Chinese Glance	Go-Bang	Polish Draughts	

Also the 45 Ringarang Spinning Games.

The entire board is made of beautiful white maple, selected stock, natural wood finish. All diagrams are in bright red and green colors, very rich and attractive. Board 29 inches square, round corners. Reversible net pockets, patent cushions. Centers 3-ply veneer, light, yet very strong. Elegant rub finish over the entire board.

There are 136 pieces of equipment with this board as follows. 35 Hardwood Rings in four colors, stained and polished, 19 Spider and Flies Men in three colors, 2 Cues, 15 Numbered Discs, 10 Tenpins, 1 Score Tab, 1 Backstop, 1 Dice Box, 2 Dice, 45 Ringarang Men in four colors, 4 Metal Spinning Rings in two colors, 1 Complete Rule Book, 1 Box for the Equipment. Each board is packed separately in a pasteboard carton.

THE SHURE WINNER PRICE LIST

Imported Genuine German Beer Steins

N1972 N1973

No. N1970. Beer Stein, full height 5 in. pewter cover with thumblift, made of highly glazed clay, embossed in bas-relief fancy scroll and figure pattern with inscription, assorted kinds.
Dozen 1.35

No. N1971. Beer Stein, height 5¼ in., made of highly glazed clay, front and sides embossed in bas-relief various scenes, assorted kinds, with pewter cover and thumblift.
Dozen 2.25

No. N1972. German Beer Stein, ⅛ liter size, 3½ high, delft blue color with raised figures and scroll work all around, pewter cover with thumblift, assorted designs, 6 styles in dozen.
Dozen..... 2.75 Each..... .25

No. N1973. German Beer Stein. ½ liter size, 8½ in. high, ecru groundwork ornamented with raised scrolls, figures and picture scenes with German inscription; background in red and green; highly glazed; pewter cover with thumb lift, 6 designs assorted.
Dozen..... 3.50 Each..... .35

N1974 N1976

No. N1974. German Beer Stein, ½ liter size, 8½ in. high, groundwork is dark ecru color with a raised band around top and raised ornament all around; front representing various pictorial scenes in lively colorings, pewter cover with thumblift, finely glazed.
Dozen..... 4.50 | Each..... .42

No. N1975. Beer Stein, extreme height 9 in., rustic handle of twisted branches, body of stein all around in panels of various fancy picture scenes embossed in bas-relief, finished in colors. German inscription, false bottom two inches deep, fancy pewter cover with thumblift, assorted.
Dozen..... 5.00 | Each..... .45

No. N1976. German Beer Stein, ¾ liter size, 11 in. high, with spread base, beautiful raised ornaments all around of scroll work, forest scenery and art pictures, dark ecru background, relieved in dark green color, fancy handle, highly glazed, pewter cover with thumblift, 6 designs assorted in dozen.
Dozen..... 6.50 | Each..... .60

N1977 N1978

No. N1977. German Beer Stein. ½ liter size, 10 in. high, dark ecru groundwork, fancy bands top and bottom with bas relief raised figures in panels finished in lithographic colors; very beautiful designs very finely glazed, pewter cover with thumblift, 6 designs assorted in dozen
Dozen..... 7.50 | Each..... .70

No. N1978. German Beer Stein. 1 liter size, false bottom, 13½ in. high, groundwork in drab color with beautiful raised ornaments and raised inscriptions with various characters finished in green, brown and shaded colors, spread bottom, fancy handle, thumblift cover of same material with figure of "soldier" on top, 6 kinds assorted.
Dozen..... 10.25 Each..... .90

N1979.

No. N1979. German Beer Stein. 2½ liter size, 13 in. high; this is an extra large and flashy stein; groundwork is shaded dark ecru, very fancy rustic handle and rustic band around bottom with flowers, leaves and branches in bas-relief style, background in green with picture scene and various characters all around; an excellent looking article; pewter cover with thumblift; 6 styles assorted in dozen
Dozen..... 12.75 | Each..... 1.20

No. N1980. German Beer Stein, similar in shape to above, ecru color, handsomely ornamented, with flat bottom, looks large, measuring 16½ in. Assorted designs; a big value.
Dozen..... 22.50 | Each..... 2.00

No. N1981. German Beer Stein. 1½ liter size, 13½ in. high, beautiful raised ornamental figures in lithographic colors, portraying German characters and pictorial scenes, all in high glazed finish, spread bottom, raised band around top; pewter cover with thumblift; very rich in appearance.
Dozen..... 18.00 | Each..... 1.65

N1982 N1984

No. N1982. Beer Stein, large size, 15½ in. high, with a bas-relief design of a scene in a German Inn with hunters and a bar maid. All these figures and scene are raised, finished in bright national colors, fancy rustic handle, pewter top with thumblift, assorted designs. Each..... 2.10

No. N1983. Beer Stein, height to top of cover about 18 in., large and capacious, highly glazed, rustic handle, pewter cover with thumblift, on stein is embossed in bas-relief a convivial scene of various figures finished in natural colors, German inscription at bottom.
Each 2.75

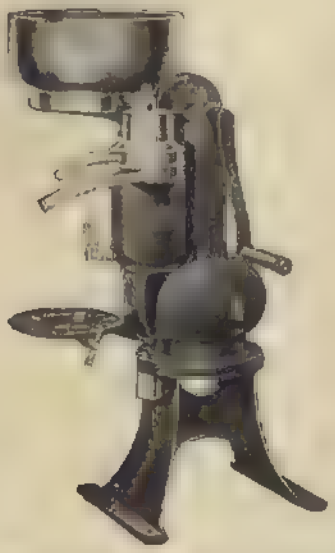
No. N1984. Beer Stein, 17½ in. high, large size, ornamented all around in bas-relief designs of wild woods and wild game animals; presenting a beautiful wild rustic scene, finished in natural colors. The handle is formed of a slim body fox, long bushy tail; detachable cover with dog and hunter figure on top, with German inscriptions. The most artistic designed beer stein offered anywhere for our price. Each..... 3.50

WHOLESALE N. SHURE CO. CHICAGO.

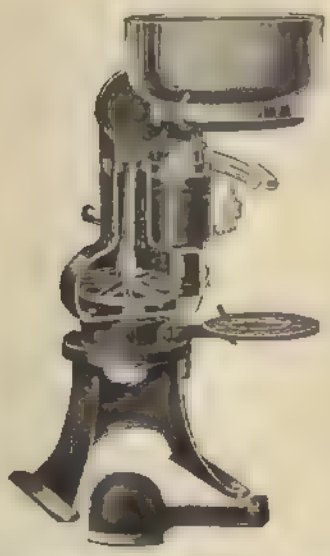
CREAM SEPARATORS

IMPROVED SIMPLEX, LINK BLADE

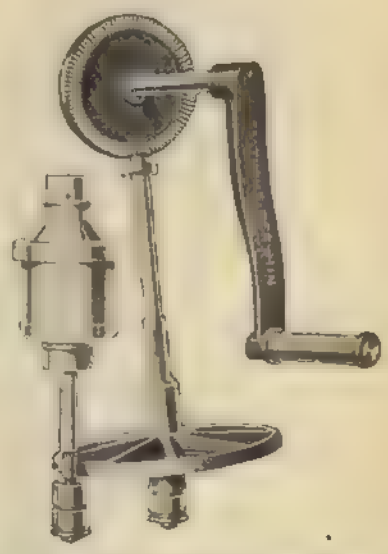
Patented



The supply can is out of the way of the operator. The oil drip pan between the base and body catches all drainage.



Showing accessibility of gearing. Removing the body housing, exposes the gearing and lower bearings.



Showing extreme simplicity of driving gears— one pair bevel gears, one pair spur gears. Showing also the inclined intermediate shaft, a new and exclusive "simplex" feature.

DAIRY SIZES, HAND POWER

Large Capacity, Close Skimming, Convenient Height, Easy Running

Nos.	3½	5	7	9	11
Capacity Per Hour, Lbs. (Guaranteed)	350	500	700	900	1100
Diameter of Bowl, Inches	4	4	4½	4½	5
Depth of Bowl, Inches	3¾	3¾	4½	5	5½
Each	$ 70.00	75.00	80 00	90.00	100.00
	112 00	120 00	128 00	144 00	160 00

While these machines are specially designed for hand operation, being the lightest running machines of their capacities made it is sometimes convenient to run them by power. For this purpose, they can be fitted to order with either a single pulley, 12 in. diameter, 1½ in. face or with tight and loose pulleys, 12 in. diameter, 1¼ in. face or **with special design clutch pulley. A 1½ in. wide belt should be used in either case.**

The extra charge for the single pulley is $3 00, Tight and Loose Pulley, $5 00. Clutch Pulley, $6 00.

The actual net power required to operate the above line of hand machines is between 1-20 and 1-10 of one horse-power, from ½ to ⅓ of what it takes to run other makes of machines of similar capacities.

The most striking feature of the new "Simplex" is its light running. The 1100 lb. size, when at speed and skimming milk, takes no more power than the ordinary 500 lb. Hand Separator of other makes. It opens up a distinctively new field for the large Hand Separator. It cuts the labor of skimming the milk more than in two, not only because it turns easier than most other Hand Separators, regardless of capacity, but because it does the work in half the time; and in these busy days, where labor is scarce and expensive, a saving in time is a direct saving in **money to the dairyman.**

To obtain these remarkably light running qualities, a higher grade and type of bearings than has ever been used before in Cream Separators, as well as a higher and more improved type of gearing had to be adopted. The principal bearings used in the new "Simplex", those carrying the weight of the bowl and gearing, are imported **annular ball bearings** of exactly the same kind that are used in the highest class of Automobiles, the most accurate, the lightest running and the most durable ball bearings known. In the "Simplex" these bearings carry less than one-tenth of the load they are intended to carry, so that their life with proper care is practically unlimited.

All waste oil drains to the oil-pan, and thence to the oil-drip cup; no oil or slop can reach the floor. The base is open, so the floor can be cleaned under the machine. The "Simplex" is a clean and sanitary machine.

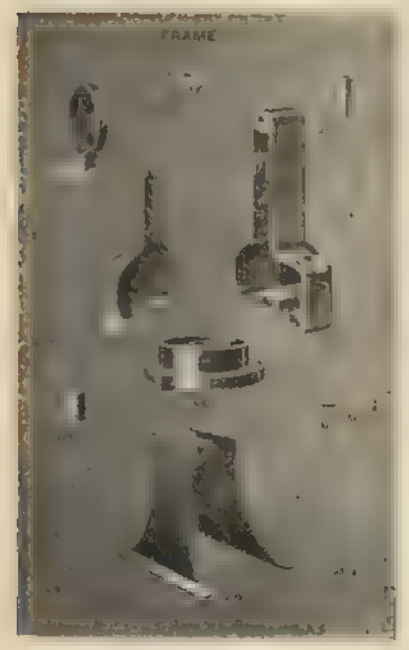
Average Weight Each 250 Pounds

HUEY & PHILP HARDWARE COMPANY.

CREAM SEPARATOR REPAIR PARTS

For Nos. 3½, 5, 7, 9 and 11 Simplex Machines

FRAME



CRANK SHAFT, INTERMEDIATE SHAFT AND BOWL SPINDLE

TINWARE

SUNDRIES

MISCELLANEOUS

For Prices, See Page 977

IRON BLOCK PLANES.

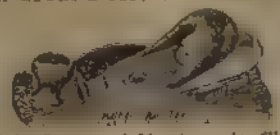
KEEN KUTTER

FINELY ENAMELED CAST IRON FRAMES and Caps; Bottoms Perfectly True and Smooth; Varnished Rosewood Knobs, Cutters made of Highest Grade Cru[illegible] Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE; Finest Screw and Lever Adjustments.

DOUBLE ENDER.

REVERSIBLE; NOT ADJUSTABLE; Size of Cutter 1⅝ in.

No. K136—LENGTH 9 IN., Weight each about 2 lbs.... Each, $1.00



With Screw Adjustment; Size of Cutter 1¾ in.

No. K230—LENGTH 7½ IN.; Weight each about 1½ lbs.....Each, $1.00

LOW ANGLE.

With Screw Adjustments.

No. K60—LENGTH 6 IN.; Size of Cutter 1½ in.; Weight each about 1¼ lbs. .....Each $1.00

No. K65—LENGTH 7 IN.; Size of Cutter 1⅝ in.; Weight each about 1¾ lbs. .....Each, 1.70

RABBET AND BLOCK.

With Lever Adjustment; Size of Cutter 1¾ in.

No. K140—LENGTH 7 IN.; Weight each about 1½ lbs.....Each, $1.80

One in a Cardboard Box.

ADJUSTABLE PLANES.

KEEN KUTTER; IRON.*

Cast Iron Frames, Bottoms Perfectly True and Smooth; Varnished Rosewood Knobs and Handles; Cutters made of Highest Grade Crucible Steel, Oil Tempered; Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY [illegible]

ROUTER

Each

No. K171 Nickel Plated Frame; Length 7½ in. Two Cutters, Size ⅜ and ½ in.; Weight each about 2½ lbs $2.00

The Cutters can be Clamped to the back of Upright Post and Outside of Stock; In this position THEY WILL REACH INTO CORNERS, rout out mortises or smooth surfaces hard to reach with other tools.

The Small Attachment in cut is furnished with each Plane and can be substituted for the Collar that holds the Cutter when the work requires a Plane with a Closed Throat.

One in a Cardboard Box.

ADJUSTABLE PLANES.

KEEN KUTTER; IRON.*

Cast Iron Frames; Bottoms Perfectly True and Smooth; Varnished Beechwood Knobs and Handles; Cutters made of Highest Grade Crucible Steel, Oil Tempered; Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE.

ROUTER, WITH CLOSED THROAT.

No. K171¼—Nickel Plated Frame; Length 7½ in.; Two Cutters, Size ⅜ and ½ in.; Weight each about 2 lbs .....Each, $2.20

VENEER SCRAPER

No. K212 — With Screw Adjustment; Adjustable to Any Angle; Finely Varnished Handles; Length 5¾ in.; Size of Cutter 3 in.; Weight each about 1 lb....Each, $3.20

No. K212 uses the same Cutters as Scraper Plane No. K[illegible], shown on this Page

IMPROVED SCRUB Each

No. K240 — NOT ADJUSTABLE. Length 9½ in.; Size of Cutter 1¼ in.; Weight each about 2 lbs...$1.40

This Plane is Particularly Adapted for Roughing down work before using a Jack or other Plane, having a Single Iron with Cutting Edge Rounded

SCRAPER

No. K312—With Screw Adjustment, Knob and Handle Finely Varnished; Length 9 in., Size of Cutter 3 in.; Weight each about 1½ lbs. .....Each, $2.00

Extra Cutters for No. K312

Scraper; Size 3 in.; Weight each about ¼ lb.. .....Each, .30

KEEN KUTTER; IRON.*

FINELY ENAMELED CAST IRON FRAMES, Bottoms Perfectly True and Smooth, Cutters made of Highest Grade Crucible Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE; Cutters are Extra Heavy Which Prevents "Chattering" When Used on Very Hard Wood or Knots.

CARRIAGE MAKERS' RABBET

Finely Varnished Rosewood Handles and Knobs; Full Polished Caps

With Screw and Lever Adjustments; Size of Cutter 2⅜ in. Each

No. K10½—Length 9 in.; Weight each about 3½ lbs.....$3.20

No. K10—Length 13 in. Weight each about 4½ lbs..... 4.00

One in a Cardboard Box.

ADJUSTABLE PLANES.

KEEN KUTTER; IRON.*

FINELY ENAMELED CAST IRON FRAMES; Bottoms Perfectly True and Smooth; Cutters made of Highest Grade Crucible Steel, Oil Tempered, Full Polished, SHARPENED AND WHETTED ON AN OIL STONE BY HAND, READY FOR USE; Cutters are Extra Heavy Which Prevents "Chattering" When Used on Very Hard Wood or Knots.

RABBET, WITH SPUR.

NOT ADJUSTABLE; Length 8 in.

Each

No. K190—Width of Cutter 1½ in.; Weight each about 2¾ lbs....$1.00

No. K191—Width of Cutter 1⅝ in.; Weight each about 2¾ lbs.... 1.00

No. K192 Width of Cutter 1 in., Weight each about 2 lbs..... 1.00

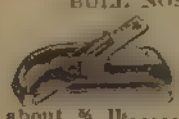
Will lie perfectly flat on either side, and CAN BE USED WITH RIGHT OR LEFT HAND equally well, while planing into corners or against perpendicular surfaces.

RABBET AND FILLETSTEP

No. K75—Length 8½ in.; Size of Cutter 1¾ in., Weight each about 2¾ lbs..... ... $2.20

By removing the Arm to which the Fence is secured, a Handled Rabbet Plane is had, with Two Seats for the Cutter, to be used as a Bull Nose Rabbet, if required. The construction of the Stock is such that the plane will lie perfectly flat on either side, and CAN BE USED WITH RIGHT OR LEFT HAND equally well while planing into corners or against perpendicular surfaces

BULL NOSE RABBET.



No. K75 — NOT ADJUSTABLE, Length 4 in.; Size of Cutter 1 in.; Weight each about ¾ lb.....$0.60

STEEL CIRCULAR.

Each

No. K115—With Screw and Lever Adjustments; Full Polished Caps; Length 10 in.; Size of Cutter 1¾ in.; Weight each about 3¾ lbs.$3.80

One in a Cardboard Box.

KEEN KUTTER FANCY PLANES.

So called for the want of a better name, are scientifically constructed to make the shape of cut and do the work correctly for which each is intended. Particular attention is called to the Steel Circular Plane, adjustable to any arc of a circle—a sweet smooth cutting tool, recommended without reservation.

ADJUSTABLE PLANES.

OAK LEAF*; WOOD BOTTOM.

VARNISHED BEECHWOOD BOTTOMS. Knobs and Handles Japanned Cast Iron Frames and Caps. Polished Steel Cutters. Screw and Lever Adjustments.

SMOOTH, WOOD BOTTOM.

Each

No. 1624—Length 8 in; Size of Cutter 2 in.; Weight each about 3 lbs...$1.60

HANDLED SMOOTH WOOD BOTTOM.

Each

No. F25—Length 10 in.; Size of Cutter 2⅜ in.; Weight each about 4¼ lbs.....$2.00

WOOD BOTTOM.

No.	F26	F27	F28
Style	Jack	Jack	Fore
Length, inches	15	15	18
Size of Cutter, inches	2	2¼	2⅜
Weight each about, lbs.	4	4¼	6
Each	$1.70	2.00	2.30

One in a Cardboard Box

ADJUSTABLE PLANES.

OAK LEAF*; IRON.

JAPANNED CAST IRON FRAMES. Bottoms True and Smooth. Cherry Stained Hardwood Handles and Knobs. Nickel Caps. Polished Steel Cutters. Screw and Lever Adjustment.

IRON SMOOTH; SMOOTH BOTTOM.

Nos.	F3	F4
Length, inches	8	9
Size of Cutter, inches	1¾	2
Weight each about, lbs.	2	3½
Each	$2.40	2.60

IRON SMOOTH, CORRUGATED BOTTOM.

No. F4 C—Length 9 in.; Size of Cutter 2 in.; Weight each about 3½ lbs.....Each, $2.60

Corrugated Bottom.

IRON, SMOOTH BOTTOM.

Nos.	F5	108	E7
Style	Jack	Fore	Jointer
Length, inches	14	18	22
Size of Cutter, inches	2	2⅜	2⅜
Weight each about, lbs.	4½	7	8
Each	$3.00	3.70	4.30

IRON, CORRUGATED BOTTOM.

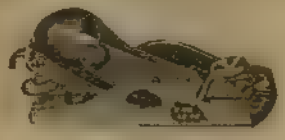
Nos.	E5 C	E6/C	E7/C
Style	Jack	Fore	Jointer
Length, inches	14	18	22
Size of Cutter, inches	2	2⅜	2⅜
Weight each about, lbs.	4½	7	8
Each	$3.00	3.70	4.30

One in a Cardboard Box.

IRON BLOCK PLANES.

OAK LEAF*

JAPANNED CAST IRON FRAMES and Caps. Cherry Stained Handles and Knobs. Polished Steel Cutters.



Each

No. E101—With Screw Lever and Cam Adjustments; Length 6 in.; Size of Cutter 1⅝ in.; Weight each about 1½ lbs.....$1.20

Each

No. E120—With Lever Adjustment; Length 5½ in.; Size of Cutter 1¼ in.; Weight each about 1⅛ lbs. $0.80

One in a Cardboard Box.

IRON BLOCK PLANES.

OAK LEAF*

JAPANNED CAST IRON FRAMES and Caps. Bottoms True and Smooth. Polished Steel Cutters.

Each

No. E103—With Lever Adjustment; Length 5½ in.; Size of Cutter 1¼ in.; Weight each about 1 lb...$0.60

Each

No. E110—NOT ADJUSTABLE. Length 5½ in.; Size of Cutter 1¼ in.; Weight each about 1⅛ lbs. $0.50

One in a Cardboard Box.

IRON BLOCK PLANES.

OAK LEAF*

JAPANNED CAST IRON FRAMES and Caps. Bottoms True and Smooth. Polished Steel Cutters.

Each

No. E102—NOT ADJUSTABLE. Length 5⅛ in.; Size of Cutter 1¼ in.; Weight each about 1 lb...$0.50

Each

No. E101—TOY SIZE. NOT ADJUSTABLE. Length 3 in.; Size of Cutter 1 in.; Weight each about ½ lb..... $0.22

One in a Cardboard Box

‡EXTRA PARTS FOR KEEN KUTTER* PLANES.

‡FOR KEEN KUTTER* CIRCULAR PLANES.

For Plane Number	‡Bottom	‡Frog Complete	‡Cap	‡Handle	‡Top Casting	‡Adjusting Nut	‡Frog Screw	‡Cap Screw
	Each	Each	Each	Each	Each	Each	Dozen	Dozen
K115	$0.95	$0.60	$0.38	$0.24	$1.00	$0.12	$0.60	$0.60

‡FOR KEEN KUTTER* IRON RABBET PLANES.

For Planes Number	‡Bottom	‡Cap	‡Depth Gauge	‡Fence	‡Spurs and Screws
	Each	Each	Each	Each	Dozen
K190	$1.25	$0.16	$0.30	...	$0.90
K191	1.35	.16	.30	...	.90
K192	1.35	.16	.30	...	.90
K19	1.40	.14	.28	$0.30	.84

Packed Loose.

In ordering above Parts be particular to give Number of Plane for which Part is wanted.

Extra Parts can be sent by Mail or Express at slight cost.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

HIGHEST GRADE SOLID GOLD AND GOLD FILLED FINE SELECTED GENUINE CAMEO BROOCHES

All Gold Brooches Have Safety Catches.

PRICE EACH

No. 7792, $24.00
Solid Gold.
Genuine Italian Shell Cameo.
English Finish.
Hand Engraved Border.

No. 7799, $24.00
Solid Gold.
Genuine Italian Pink Cameo.
English Finish.
Hand Engraved Border.

No. 7800, $18.00
Solid Gold.
Genuine Italian Shell Cameo.
English Finish.
Hand Engraved Border.

No. 7801, $15.00
Solid Gold.
Genuine Italian Shell Cameo.
English Finish.
Hand Engraved Border

No. 7802, $12.00
Solid Gold.
Genuine Italian Pink Cameo.
English Finish.
Hand Engraved Border.

No. 7803, $12.00
Solid Gold.
Genuine Italian Shell Cameo.
English Finish.
Hand Engraved Border.

No. 7804, $10.00
Solid Gold.
Genuine Italian Pink Cameo.
English Finish.
Hand Engraved Border.

No. 7805, $9.00
Solid Gold.
Genuine Pink Cameo.
English Finish.
Hand Engraved Border.

No. 7805, $12.00
Solid Gold.
Genuine Pink Cameo.
Roman Finish.

No. 7807, $16.00
Genuine Italian Pink Cameo.
Hand Engraved Border Mounting.
English Finish.

No. 7808, $18.00
Genuine Italian Pink Cameo.
Plain Polished Border Mounting Heavy.

No. 7809, $10.00
Genuine Italian Pink Cameo.
Hand Engraved Border Mounting.
English Finish.

No. 7810, $12.00
Genuine Italian Pink Cameo.
Plain Border Polished, Heavy Mounting

No. 7811, $6.00
Genuine Cameo
Gold Filled Band.
Polished

No. 7812, $7.50
Genuine Cameo
Gold Filled Band
Polished.

No. 7813, $6.00
Genuine Cameo.
Gold Filled Band.
Polished.

No. 7814, $1.50
Imitation Coral Cameo.
Gold Filled Band.
Roman Finish.

No. 7815, $1.95
Imitation Coral Cameo.
Gold Filled Band.
Roman Finish.

Gillette Safety Razors

The World's Standard of Quality.

Vest Pocket Edition.

N5634 N5635

No. N5634. Gillette's Safety Razor is the most perfect of any safety razor in the market, best adjustment, best quality and finest workmanship, no stropping or honing, you can shave in the dark, costs less than one cent per shave; the blades are double edged and patented concave ground, the holder is finely silver plated and polished, in a leather case; 12 blades with each holder. Per outfit, complete..... 3.75

No. N5635. Gillette Safety Razor, pocket edition; in neat, nickle-plated case, flat, handy to carry in pocket. Each 3.75

No. N5636. Extra Gillette Blades, New Improved Style.

Made of best quality steel obtainable for razor blades. Packed 12 blades in a neat nickel box. Per box ..... .75

No. N5636½ as above, packed 6 blades in a paper box. Per box ..... .37½

No. N5628. Shaving Set, in point of value, this is a bargain offer Contains china cup, one lather brush, one box of talcum powder and one cake of Williams Shaving Soap. Packed in a neat box. A fine set for mail order proposition. One of our big sellers. Dozen sets..... 2.75

This is An Extra Good Value in An Imported Pocket Knife. Superior Grade—Good Workmanship.

Pocket Knife, 2 blade, one large spear, one small, both blades glazed polished on both sides, finely buffed all over, first class workmanship throughout, polished steel bolster, closed 3¼ in., a gentleman's fine pocket knife. One-half dozen in box.

No. N5160. **Ebony.** Dozen..... .. 2.00

No. N5161. **Stag.** Dozen.... .. .. 2.00

Few Notable Selling "Specials"

Combination Pearl Pocket Knife.

No. N5226. Combination Pearl Pocket Knife. This is one of the best of its kind, truly a peerless value at the price we quote. The handle is 3¼ inches of selected mother-of-pearl with a brass shield, contains the following tools

1 large blade, 1 spring scissors,
1 small blade, 1 nail file and pick,
1 cork screw.

Blades and tools are of finest tempered steel, silver polished on all sides, cannot be bettered in general finish Brass lined, thorough workmanship. Will pay a big profit. Each..... 2.00

JAP SWORD KNIFE.

Big Flash for Knife Board Men. A Good Item For Bachelor Den.

No. N5372. Japanese Sword Knife, 6½-inch polished blade, entire length, 10¾ inches, fancy carved bone handle with ferrule, each in a heavy bone sheath fancy carved in Japanese figures, matching handle, bone ring and staple with fancy cord and tassel, the carved figures are traced in black and colors; appropriate article for bachelor's den, and a very attractive item for knife-board men. Dozen..... .... 4.00

No. N5374. Japanese Sword, made in same style, finish and material as above but shorter. Entire length closed in sheath, 7 in. Dozen..... 2.25

Chef's Poultry Cutting Shears

For Dismembering Poultry, This Tool Is Superior to Carving Knife or Cleaver.

No. N5801. Cooks' Poultry Shear, 10½ in. long, made of finely tempered steel, full nickel plated and polished with scored handle which locks securely with slip-off clasp, strong coil, steel spring works blades apart, nut and bolt fastening, one blade with saw edge; blades 3¾ in. long, designed for cutting up of poultry. Heavy clip on opposite of blades, will snap any bone in a fowl. This tool excels any carving knife made, is more convenient, and handy, performs the work cleanly and with perfect ease. The bone clipper or breaker is made in exact shape of an Eagle head and beak, on which great force may be exerted by the handle. Each..... 1.25

RAZORS

Per Dozen

No. 68—J. A. Henckels, ⅝ in. Blade, Square Point, Full Concaved, White Celluloid Handle.....$42.00
No. 138—J. A. Henckels, ⅝ in. Blade, Square Point, Full Concaved, White Ivory Handle..... 96.00

One-half Dozen in a Box

Per Dozen

No. 96—J. A. Henckels, ⅝ in Blade Square Point, Full Concaved, Etched, Rubber Tang, Fancy Flat Black Rubber Handle $54.00

One-half Dozen in a Box

Per Dozen

No. 115 —J. A. Henckels, ½ in. Blade, Square Point, ⅝ Hollow Ground, Flat Black Rubber Handle.....$30 00
No. 115½—J. A. Henckels, ⅝ in Blade, Square Point, ⅝ Hollow Ground, Flat Black Rubber Handle..... 30.00

One-half Dozen in a Box

HINDU INDIA STEEL, Finest Hand Forged English Steel, Full Polished, File Cut Tang, Flat Black Rubber Handle

Round Point	Per Dozen	Square Point	Per Dozen
No. 167R—½ in. Blade	$28.00	No. 167S—½ in. Blade	$28 00
No. 0167R—⅝ in. Blade	28.00	No. 0167S—⅝ in. Blade	28 00

One-half Dozen in a Box

HUEY & PHILP HARDWARE COMPANY.

RAZORS

WOSTENHOLM PIPE, Full Hollow Ground, Full Polished, Oval Black Rubber Handle

Round Point	Per Dozen	Square Point	Per Dozen
No. 01461½—½ in. Blade	$24.00	No. 01461½S—½ in. Blade	$24.00
No. 01461⅝ ⅝ in Blade	24.00	No. 01461⅝S—⅝ in Blade	24.00

One-half Dozen in a Box

	Per Dozen
No. 01163—Wostenholm IXL, ⅝ in Blade, Square Point, Full Hollow Ground, Oval Black Rubber Handle	$18.00
No. 01163R—Wostenholm IXL, ⅝ in. Blade, Round Point, Full Hollow Ground, Oval Black Rubber Handle.	18.00

One-half Dozen in a Box

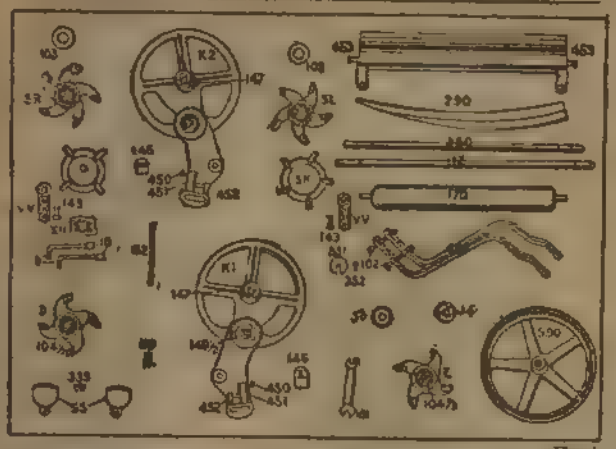
	Per Dozen
No. 184—⅝ in Blade Square Point, Hollow Ground, Polished, Oval Black Rubber Handle.	$ 8.00
No. 185—⅝ in Blade, Square Point, Hollow Ground, Polished, White Bone Handle	10.00

One-half Dozen in a Box

	Per Assortment
No. 1002—Razor Assortment, ⅝ in Hollow Ground Blades Forged from Good Quality Steel, Hardly Tempered and Set Ready for Use Assorted Plain and Fancy Handles, Put Up Six in a Satin Lined Spring Bottom Leatherette Display Case	$12.00

EXTRA PARTS FOR LAWN MOWERS. —334—

KEEN KLIPPER, LOW WHEEL LAWN MOWERS.



	Each
‡No. O—Right Hand Spider for 4 Knife Spiral Cutter	$1.20
‡No. E—Left Hand Spider for 4 Knife Spiral Cutter	1.20
‡No. C—Center Spider for 4 Knife Spiral Cutter	.46
‡No. 5R—Right Hand Spider for 5 Knife Spiral Cutter	1.20
‡No. 5L—Left Hand Spider for 5 Knife Spiral Cutter	1.20
‡No. 5C—Center Spider for 5 Knife Spiral Cutter	.46
‡No. J3—Right Hand Pinion, Cast	.38
‡No. J4—Left Hand Pinion, Cast	.38
‡No. SE—Gear Cover, Cast	.38
‡No. R—Right Frame, Cast	1.90
‡No. L—Left Frame, Cast	1.90
No. V11—Wrench, Malleable	.24
‡No. VV—Roller Bracket, Malleable, Both Alike	.30
‡No. XII—Center to Handle, Malleable	.16
No. B—Handle Hook, Malleable	.16
No. 10—Handle Hook Nut	.05

Cutter Bar, Cast.

Nos.	‡N10	‡N12	‡N14	‡N16	‡N18	‡N20	‡N22	‡N24
Cutter Bar, in.	10	12	14	16	18	20	22	24
Each	$1.50	1.66	1.80	2.00	2.10	2.30	2.40	2.60

‡No. S 90—Drive Wheel, Cast, Both Alike	$1.50
No. 102—Bolt for Handle Brace	.12
No. 103—Ball Cage, Steel, for Ball Bearings	.54
‡No. 104½—Ball Retainer, Steel, for Ball Bearings	.16
‡No. 112—Front Axle, Steel, All Sizes, (Give Cutting Width of Mower)	1.14
No. 113—Pawl for Steel Pinions, Nos. J3 and J4	.08
‡No. 143—Ball for Roller Bracket No. VV	.12
No. 145—Left Hand Ball Bearing Cone, Steel	.30
No. 146—Right Hand Ball Bearing Cone, Steel, for Frame Nos. K1 and K2	.70
No. 147—Set Screw, Steel, for holding Frame to Axle	.08
‡No. 141½—Set Screw, for Holding Spider to Reel Shaft	.08
No. 149—Set Screw, Steel under No. 146 Steel Cone	.08
No. 152—Pin Operating Screw Cone and Drive Wheel, Steel	.08
‡No. 170—Wood Roller, All Sizes	.76
‡No. 180—Roller Shaft, Steel, All Sizes (Give Cutting Width of Mower)	1.14
‡No. 200—Spiral Cutter Blades, Steel, All Sizes (Give Cutting Width of Mower)	1.20
No. 202—Lower Blade, Steel (Stationary Knife)	

Give Cutting Width of Mower.

Size, inches	‡10	‡12	14	16	18	‡20	‡22	‡24
Each	$1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

	Each
‡No. 223—Wood Handle (Without Braces)	$1.14
‡No. 231—Split Steel Washer, for No. S 93 Drive Wheel	.16
‡No. 232—Screw, Steel, for Wheel Washer No. 231	.05
No. 235—Screw, Steel, for No. SS Gear Cover	.05
‡No. 240—10 inch	4.20
‡No. 241—12 inch	5.30
‡No. 242—14 inch	6.40
‡No. 243—16 inch	7.50
‡No. 244—18 inch	8.70
‡No. 245—20 inch	9.80
‡No. 246—22 inch	10.90
‡No. 247—24 inch	12.00

Spiral Cutters (Malleable Spiders and Four Spiral Steel Blades) Complete. For Spiral Cutters (Malleable Spiders and Five Spiral Steel Blades) add $1.50 to price of Four Blades.

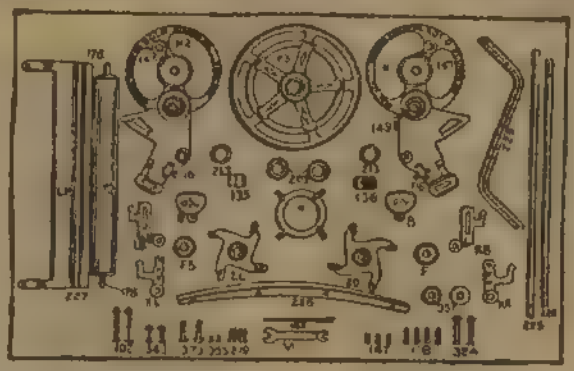
‡No. 251—Handle Braces, Wrought, All Sizes (Give Cutting Width of Mower)	.60
‡No. 450—Front Adjusting Screw, Steel, threaded to Head for No. N Cutter Bar	.08
‡No. 451—Back Adjusting Screw, Steel, threaded half-way to Head for No. N Cutter Bar	.08
‡No. 452—Square Nut for No. 450 Screw	.05
‡No. 453—Flat Head Screw, Steel, for fastening Lower Bar to Frame	.08
Steel Balls, 5/16 inch Diameter	.05

Packed Loose.

EXTRA PARTS FOR LAWN MOWERS.

ROLO,

DOUBLE GEAR, BALL BEARING LAWN MOWERS.



	Each
No. N1—Right Frame, Cast Iron	$1.90
No. N2—Left Frame, Cast Iron	1.90
No. F3—Drive Wheel, Cast Iron, Both Alike	1.50
No. F4—Right Hand Pinion, Cast Iron	.38
No. F5—Left Hand Pinion, Cast Iron	.38
‡No. OO—Right Reel Spider, Malleable, for 4 Knife Spiral Cutter	1.20
‡No. EE—Left Reel Spider, Malleable, for 4 Knife Spiral Cutter	1.20
‡No. C—Center Spider, Malleable, for 4 Knife Spiral Cutter	.46
‡No. KR—Right Hand Roller Bracket, Malleable; 1909 Model	.30
‡No. KL—Left Hand Roller Bracket, Malleable; 1909 Model	.30
No. RR—Right Hand Roller Bracket, Malleable, 1911 Model	.30
No. LR—Left Hand Roller Bracket, Malleable 1910 Model	.30
No. V11—Wrench, Malleable	.24
No. S—Gear Cover, Cast Iron	.38
No. L14—Lower Bar, Cast Iron, for 14 in. Mower	1.80
No. L16—Lower Bar, Cast Iron, for 16 in. Mower	1.90
No. L18—Lower Bar, Cast Iron, for 18 in. Mower	2.10
No. 102—Bolt for Handle Brace	.12
No. 116—Adjusting Screw, for No. L Lower Cutter Bar	.08
‡No. 135—Left Hand Ball Bearing Cone, Steel	.30
‡No. 136—Right Hand Ball Bearing Screw Cone, Steel	.70
No. 147—Set Screw, Fastening Frame to Tie Rod and Spider to Reel Shaft	.08
No. 149½—Set Screw, under Cone No. 136	.08
No. 152—Pin, Adjusting Cone No. 136 and turning Wheel No. F3	.08
‡No. 203—Ball Cage, Steel, for Ball Bearings	.32
‡No. 212—Ball Retainer, Steel, for Ball Bearings	.16
‡No. 170—Wood Roller, All Sizes, (Give Cutting Width of Mower), 1909 Model	.70
‡No. 171—Wood Roller, All Sizes, (Give Cutting Width of Mower), 1910 Model	.76
No. 176—Pin, Steel, in End of Wood Roller	.16
No. 219—Pawl, Steel, for Cast Pinions Nos. F4 and F5	.08
‡No. 225—Reel Shaft, Steel, All Sizes, (Give Cutting Width of Mower)	1.14
‡No. 226—Front Tie Rod, Steel, All Sizes, (Give Cutting Width of Mower)	1.14
No. 227—Lower Blade, Steel, (Stationary Knife) 14, 16 and 18 inch, (Give Cutting Width of Mower)	1.50
‡No. 225—Spiral Cutter Blade, Steel, All Sizes, (Give Cutting Width of Mower)	1.20
‡No. 229—Handle Brace, Steel, All Sizes, (Give Cutting Width of Mower)	.60
‡No. 232—Reel Complete, 4 Blades, 14 inch	6.40
‡No. 233—Reel Complete, 4 Blades, 18 inch	7.50
‡No. 231—Wood Handle, (Without Braces)	1.14
No. 324—Screw, Fastening Wheel No. F3 to Axle	.08
No. 335—Screw, Steel, Fastening Stationary Knife to Cutter Bar and No. 2 Gear Cover to Side Frame	.05
No. 343—Bolt, for Malleable Roller Brackets Nos. KR and KL	.12
No. 357—Washer for Wheel No. F3, Steel	.08
No. 373—Hexagon Head Steel Screw, Fastening Cast Frame to Lower Bar	.08
Steel Balls, 5/16 inch Diameter	.05

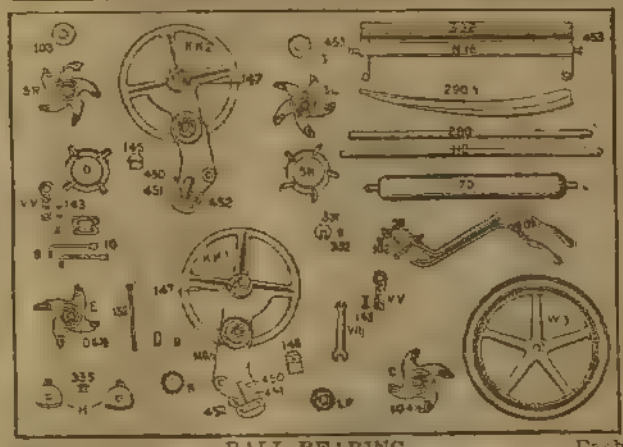
Packed Loose.

IN ORDERING ALWAYS GIVE NUMBER AND NAME OF PART AND NAME OF LAWN MOWER.
EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT SLIGHT COST

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

EXTRA PARTS FOR LAWN MOWERS.

KEEN KLIPPER®, HIGH WHEEL LAWN MOWERS.



	BALL BEARING.	Each
‡No. D	Right Hand Spider for 4 Knife Spiral Cutter	$1.20
‡No. E	Left Hand Spider for 4 Knife Spiral Cutter	1.20
‡No. O	Center Spider for 4 Knife Spiral Cutter	.46
‡No. 5R	Right Hand Spider for 5 Knife Spiral Cutter	1.20
‡No. 5L	Left Hand Spider for 5 Knife Spiral Cutter	1.20
‡No. 5K	Center Spider for 5 Knife Spiral Cutter	.46
‡No. H	Cast Gear Cover	.38
No. K	Right Hand Pinion, Cast	.38
No. LF	Left Hand Pinion, Cast	.38
‡No. KK1	Right Hand Frame, Cast	1.90
No. KK2	Left Hand Frame, Cast	1.90
‡No. W3	Drive Wheel, Cast, Both Alike	1.50
No. 9	Handle Hook, Wrought	.16
No. 10	Nut for Handle Hook	.05
No. VII	Wrench, Malleable	.24
‡No. VV	Roller Bracket, Malleable, Both Alike	.30
‡No. XII	Collar for Handle, Malleable	.16

Nos.	Cutter Bar, Cast ‡N10	‡N12	‡N14	‡N16	‡N18	‡N20	‡N22	‡N24
Cutter Bar, In..	10	12	14	16	18	20	22	24
Each	$1.00	1.06	1.80	1.80	2.10	2.30	2.40	2.60

		Each
No. 102	Bolt for Handle Brace	$0.12
No. 103	Ball Cone, Steel for Ball Bearings	.54
‡No. 104½	Ball Retainer, Steel, for Ball Bearings	.16
‡No. 112	Front Axle, Steel, All Sizes, (Give Cutting Width of Mower)	1.14
No. 119	Pawl for Cast Pinions Nos. LF and L, Steel	.08
‡No. 143	Bolt for Roller Brackets No. VV	.12
No. 145	Left Hand Ball Bearing Cone, Steel	.30
No. 146	Right Hand Ball Bearing Cone, Steel for Frames Nos. KK1 and KK2	.76
No. 147	Set Screw, Steel, for holding Frame to Axle	.08
‡No. 147½	Set Screw, Steel, for holding Spider to Reel Shaft	.08
No. 149½	Set Screw, Steel, under No. 146 Steel Cone	.08
No. 152	Pin, Operating Screw Cone and Drive Wheel, Steel	.08
‡No. 170	Wood Roller, All Sizes	.75
‡No. 280	Reel Shaft, Steel, All Sizes	1.15
‡No. 290	Spiral Cutter Blade, Steel, All Sizes	1.20

No. 302—Lower Blade, Steel (Stationary Knife) Give Cutting Width of Mower.

Size, inches	‡10	‡12	14	16	18	‡20	‡22	‡24
Each	$1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50

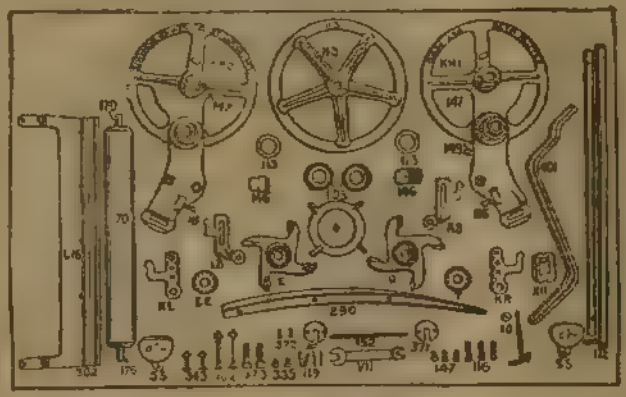
		Each
‡No. 327	Wood Handle (Without Braces)	1.14
‡No. 331	Split Steel Washer, for No. W3 Drive Wheel	.10
‡No. 332	Screw, Steel, for Wheel Washer No. 331	.05
No. 373	Screw, Steel, for No. H Gear Cover	.05
‡No. 380	10 inch	4.20
‡No. 381	12 inch	5.30
‡No. 382	14 inch	6.80
‡No. 383	16 inch	7.50
‡No. 384	18 inch	8.70
‡No. 385	20 inch	9.75
‡No. 386	22 inch	10.90
‡No. 387	24 inch	12.00

Spiral Cutters (Malleable Spiders and Four Spiral Steel Blades) Complete. For Spiral Cutters (Malleable Spiders and Five Spiral Steel Blades) add $1.60 to price of Four Blades.

‡No. 401	Handle Brace, Wrought, All Sizes (Give Cutting Width of Mower)	.60
‡No. 455	Front Adjusting Screw, Steel, threaded to Head, for No. N Cutter Bar	.08
‡No. 45	Back Adjusting Screw, Steel, threaded half-way to Head, for No. N Cutter Bar	.08
‡No. 457	Square Nut, for No. 455 Screw	.05
‡No. 153	Flat Head Screw, Steel, for fastening Cutter Bar to Frame	.08
Steel Balls,	5/16 in Diameter, Packed Loose	.05

EXTRA PARTS FOR LAWN MOWERS.

KEEN KLIPPER®, LOW WHEEL LAWN MOWERS (1909 MODEL).



	BALL BEARING.	Each
‡No. KH1	Right Hand Frame, Cast Iron	$1.90
‡No. KH2	Left Hand Frame, Cast Iron	1.90
‡No. W3	Drive Wheel, Cast, Both Alike	1.50
‡No. D	Right Hand Spider, Malleable; for 4 Knife Spiral Cutter.	1.20
‡No. E	Left Hand Spider, Malleable; for 4 Knife Spiral Cutter.	1.20
‡No. O	Center Spider, Malleable; for 4 Knife Spiral Cutter.	.46
No. T	Right Hand Pinion, Cast	.38
No. TF	Left Hand Pinion, Cast	.38
‡No. SS	Gear Cover, Malleable	.38
No. VII	Wrench, Malleable	.24
‡No. RR	Right Hand Roller Bracket, Malleable, 1909 Model	.30
‡No. RL	Left Hand Roller Bracket, Malleable, 1909 Model	.30
No. RR	Right Hand Roller Bracket, Malleable 1909 Model	.30
No. LR	Left Hand Roller Bracket, Malleable 1909 Model	.30
‡No. XII	Collar, for Handle, Malleable	.16
No. L14	Cutter Bar, Cast for 14 inch Mower	1.80
No. L16	Cutter Bar, Cast, for 16 inch Mower	1.90
No. L18	Cutter Bar, Cast, for 18 inch Mower	2.10
No. 9	Handle Hook, Steel	.15
No. 10	Handle Hook Nut, Steel	.05
No. 102	Bolt, for Handle Brace	.12
No. 103	Ball Cone, Steel, for Ball Bearings	.54
‡No. 112	Front Axle, Steel, All Sizes, (Give Cutting Width of Mower)	1.14
No. 113	Ball Retainer, Steel, for Ball Bearings	.15
‡No. 116	Adjusting Screw, Steel, for No. L Cast Cutter Bar	.08
No. 119	Pawl, Steel, for Cast Pinions Nos. T and TF	.08
No. 145	Left Hand Ball Bearing Cone, Steel	.30
No. 146	Right Hand Ball Bearing Screw Cone, Steel	.76
No. 147	Set Screws, Steel, Holding Frame to Axle and Spiders to Reel Shaft	.08
No. 149½	Set Screw, Steel, under No. 146 Steel Cone	.08
No. 152	Pin, Steel, Operating Screw Cone and Drive Wheel	.08
‡No. 170	Wood Roller, All Sizes, (Give Cutting Width of Mower), 1909 Model	.76
No. 176	Pin, Steel, in End of Wheel Roller	.15
‡No. 280	Reel Shaft, Steel; All Sizes; (Give Cutting Width of Mower).	1.14
‡No. 290	Spiral Cutting Blade, Steel; All Sizes; (Give Cutting Width of Mower).	1.20

No. 302—Lower Blade, Steel (Stationary Knife) Give Cutting Width of Mower.

Size, inches	‡12	14	16	18
Each	$1.50	1.50	1.50	1.50

		Each
‡No. 327	Wood Handle (Without Braces)	1.14
No. 335	Screw, Steel, for No. SS Gear Cover, also Fastening Stationary Knife to Cast Cutter Bar	.05
No. 343	Bolt, for Malleable Roller Brackets Nos. RR and LR	.12
No. 331	Split Steel Washer, for No. W3 Drive Wheel	.15
No. 332	Screw, Steel for Wheel Washer No. 331	.05
No. 373	Hexagon Head Screw, Steel, Fastening Frame to Cast Cutter Bar	.08
‡No. 380	12 inch	6.40
‡No. 381	14 inch	7.50
‡No. 384	18 inch	8.70

Spiral Cutters (Malleable Spiders and Four Spiral Steel Blades) Complete. For Spiral Cutters (Malleable Spiders and Five Spiral Steel Blades) add $1.60 to price of Four Blade Cutters.

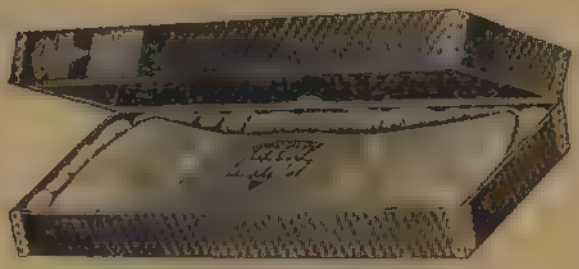
‡No. 401	Handle Brace, Steel, All Sizes, (Give Cutting Width of Mower)	.60
Steel Balls,	5/16 inch Diameter, Packed Loose	.05

IN ORDERING, ALWAYS GIVE NUMBER AND NAME OF PART WANTED. EXTRA PARTS CAN BE SENT BY MAIL OR EXPRESS AT SLIGHT COST.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

KEEN KUTTER* AXES.

SINGLE BIT CARTON.



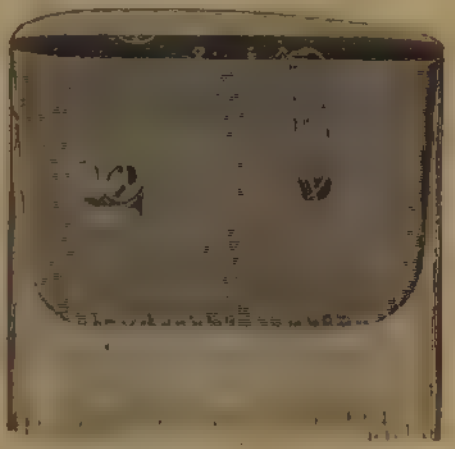
DOUBLE BIT CARTON.

All KEEN KUTTER Axes, Handled or Unhandled, are Packed in INDIVIDUAL CARTONS made of Heavy Paper

The Weight of the Axe is Printed on the Outside of Carton, therefore making it unnecessary for the Dealer to open the Carton.

This method of Packing enables the Dealer to present to his customer a perfect Axe, Free from Finger Marks and Rust Spots, and with a Sharp Cutting Edge which has been protected from the time it left the Axe Maker

ACTUAL SIZE.
SIMMONS DOUBLE LOCKING AXE WEDGE



SECTIONAL VIEW SHOWING APPLICATION OF THE SIMMONS PATENT DOUBLE LOCKING WEDGE.

All our Handled Axes are Wedged with the **SIMMONS** PATENT DOUBLE LOCKING AXE WEDGE, which will **positively prevent the Head from Flying off the Handle.**

The Heavy Malleable Wedge has Grooved Sides, so formed that when the Strong Steel Pins are Driven in the Wedge the Sharpened End of the Pins are Curled and Forced into the Wood on Both Sides by Striking the End of the Grooves and Entering the Hole, forming a Hook, thus making a Positive Double Lock

Showing our Secure Method of Packing and Wrapping all our Handled Axes. The Heads are Carefully Boxed, the Handles are Wrapped with Paper and Covered with Burlap.

Twenty-five Years' experience in Handling Axes. IT IS NO EXPERIMENT WITH US

Our Axe Handling Department is under Our Own Supervision, and we employ Workmen who know by many years' experience the Correct Shaping and Set of the Handle.

Every Axe is Handled by a Fixed Gauge to Insure its being Perfect in this respect.

For over Forty-five years and more the KEEN KUTTER Axe has stood the Test and has always proved satisfactory when put into use, until now in all Lands wherever Axes are used it is recognized as the standard of the best that money and brains can produce

Perfectly balanced and properly handled by men who know how to handle an Axe, it falls true to the woodchopper's stroke—no unsightly creases in the cut. Unless you appreciate what is good and expect to take just pride in a fine tool, pass it by for the KEEN KUTTER Axe which is for every man who knows what is good and who always wants the best

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HUNTING KNIVES.

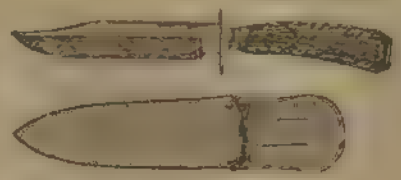
Extra Quality Crucible Steel Blades, Highly Tempered and Polished.

KEEN KUTTER

Laminated Leather Handle, with Brass and Fibre trimmings at Each End; Polished Stag Horn Tip, Hollow Ground Blade; Back of Point Sharpened for Bone Chopping or Rough Wood. Complete with Russet Leather Sheath, with Loop.

No.	K1075/5	K1075/6	K1075/7
Blade, inches	5	6	7
Weight per doz. about, lbs.	5½	8	10
Per dozen	$36.00	37.00	15.00

KEEN KUTTER



Stag Handle, German Silver Ferrule, Cap and Guard; Clip Point Blade; Complete with Leather Sheath, with Loop.

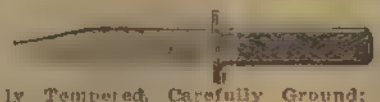
No. K1000/6—6 in. Blade; Weight per dozen about 5 lbs. ..... Per Dozen, $22.00

KEEN KUTTER

Scale Tang Stag Handle, Three Pin German Silver Guard; Clip Point Blade; Complete with Leather Sheath, with Loop.

No.	K1050/5	K1050/6	K1050/7
Blades, inches	5	6	7
Weight per dozen about, lbs.	4¾	6	8
Per dozen	$14.00	16.00	18.00

OAK LEAF



Scale Tang Ebony Stained Handle; Extra Quality Crucible Steel Blade, Swaged, Highly Tempered, Carefully Ground; Glazed Finish; Lead Bolster and Guard.

No. K1198—6 in. Blade; Weight per dozen about 4½ lbs. ..... Per Dozen, $10.00

MARBLES

Extra Quality Crucible Steel Blades, Highly Tempered and Polished.

Polished German Stag Handle, with Fibre and Brass Trimmings at each End, and Polished Stag Horn Tip. Heavy Hollow Ground Blade; Back of Point Sharpened for Bone Chopping or Rough Wood. Complete with Russet Leather Sheath.

No.	25	26
Blades, inches	5	6
Weight per dozen about, lbs.	5¼	7
Per dozen	$48.00	53.00

Laminated Leather Handle, with Brass and File Trimmings at each end and Polished Lignum-vitae Tip; Hollow Ground Blade; Back of Point Sharpened for Bone Chopping or Rough Wood. Complete with Russet Leather Sheath.

No.	15	16
Blades, Inches	5	6
Weight per doz. about lbs.	7½	7½
Per dozen	$39.70	44.00

One-half Dozen in a Cardboard Box

HUNTING KNIVES.

Scale Tang Swell Rosewood Handle; First Quality Crucible Steel Blade, Tempered, Ground, Final Polished Steel Bolster and Lead Cap.

No. 1512—6 in. Blade; weight per dozen about 4½ lbs. ..... Per Dozen $12.00

Scale Tang Ebony Handle; First Quality Crucible Steel, Swaged Blade, Highly Tempered, Glazed Finish.

No. 70442—6 in. Blade; Weight per dozen about 4 lbs. ..... Per Dozen, $3.50

One-half Dozen in a Cardboard Box.

STAG HANDLE, Two Extra Quality Crucible Steel Blades, Clip Point Large Blade, Tempered and Full Polished, Folding Corkscrew, Polished Steel Bolster and Cap; German Silver Shield; Brass Lining.

Per Dozen

No. 7560½—6½ in. Handle; Weight per dozen about 3½ lbs. $52.00

No. 7502—5 in. Handle; Weight per dozen about 2¾ lbs. 33.00

4½ in. Extra Quality Crucible Steel Blade, Saber Pattern, Clip Point, Full Polished, German Silver Bolster, Cap and Clasp; Folding Corkscrew; Brass Lining.

No. 8021—5½ in. [illegible] per dozen ..... Per Dozen, $38.00

5 IN GENUINE DEER FOOT HANDLE; 3¼ in. Extra Quality Crucible Steel Blade, Saber Pattern, Clip Point, Full Polished German Silver Bolster and Clasp, with Steel Key Ring and Folding Corkscrew Brass Lined.

Per Dozen

No. 8373 Weight per dozen about 5 lbs. $21.00

Extra Quality Crucible Steel Blade, Saber Pattern, Glazed Finish, German Silver Ferrule, Polished Steel Guard.

No. 1784—GENUINE DEER FOOT HANDLE; 6 in. Blade, Weight per dozen about 4½ lbs Per Dozen, $11.00

One-half Dozen in a Cardboard Box.

CAMPING COMPANIONS.

German Silver Bolsters; [illegible] Linings, Contains Two Extra Quality Crucible Steel Blades, Tempered and Full Polished; One Three Tine Steel Fork, Polished, One Corkscrew and One Solid German Silver Spoon. CAN BE TAKEN APART AND KNIFE, FORK AND SPOON USED SEPARATELY

Per Dozen

No. 6308—[illegible] Buffalo Horn Handle; 1 Large Spear Point, 1 Small Square Point; Weight per dozen abt. 3 lbs. ..$50.00

No. 8554½—3¾ in. Buffalo Horn Handle; 1 Large Clip Point, 1 Small Square Point; Weight per dozen about 2¼ lbs. 38.00

Separate Parts.

In Individual Boxes; One-half Dozen in a Carton

KNIVES.

KEEN KUTTER

BUTCHER KNIVES.

Highest Grade Crucible Butcher Knife Steel Blade, Uniformly Tempered, Carefully Ground and Sharpened.

Scale Tang, Ebony Handles with Two Brass Saw Rivets and Two Steel Pins, Highly Polished and Colored.

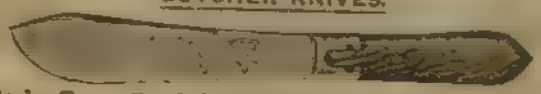
Nos.	K9/6	K9/7	K9/8
Length Blade, Inches	6	7	8
Weight per dozen about, lbs.	4½	6	7½
Per dozen	$8.50	11.50	13.50

One-half Dozen in a Cardboard Box.

KEEN KUTTER

Highest Grade Crucible Butcher Knife Steel Blade, Uniformly Tempered; CAREFULLY GROUND AND SHARPENED, Glazed Finish.

BUTCHER KNIVES.



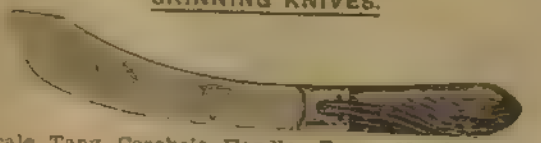
Scale Tang Cocobolo Handle; Swaged Blade; Fancy Metal Bolster.

Nos.	K1/5	K1/6	K1/6½	K1/7
Length Blade, Inches	5	6	6½	7
Weight per dozen about, lbs.	3	4	4	5
Per dozen	$6.80	8.00	8.50	9.00
Nos.	K1/8	K1/9	K1/10	K1/12
Length, Blade, Inches	8	9	10	12
Weight per dozen about, lbs.	6	6¾	7¾	8
Per dozen	$11.50	13.50	15.50	18.00

STICKING KNIVES.

No. K1½—*KEEN KUTTER*: Scale Tang Cocobolo Handle; Swaged Blade, 6 in. Long, Fancy Metal Bolster; Weight per dozen about 4 lbs. ..... Per Dozen, $8.00

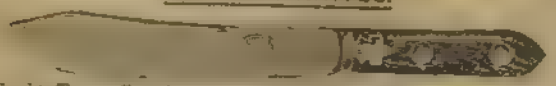
SKINNING KNIVES.



Scale Tang Cocobolo Handle; Fancy Metal Bolster.

Nos.	K1/6	K1½/7
Length Blade, Inches	6	7
Weight per dozen about, lbs.	4½	5
Per dozen	$9.00	10.50

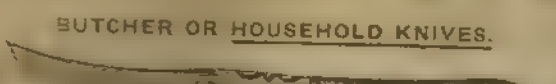
BUTCHER KNIVES.



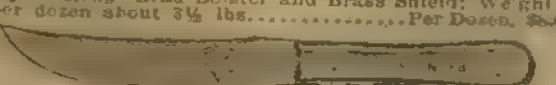
Scale Tang Cocobolo Handle, with 2 Brass Saw Rivets; Swaged Blade; Lead Bolster and Shield.

Nos.	K4/6	K4/7	K4/8
Length Blade, Inches	6	7	8
Weight per dozen about, lbs.	5	6	6
Per dozen	$8.00	9.50	11.50

BUTCHER OR HOUSEHOLD KNIVES.



No. K8½—Scale Tang Cocobolo Handle, Swaged Blade 6 in. Long, Lead Bolster and Brass Shield; Weight per dozen about 3½ lbs. ..... Per Dozen, $8.00



No. K8S—Scale Tang Boxwood Handle, with Brass Pins; Swaged Blade 6 in. Long; Weight per dozen about 3 lbs. ..... Per Dozen, $8.00

One-half Dozen in a Cardboard Box.

KNIVES.

KEEN KUTTER

Scale Tang Beechwood Handles, with Three Brass Saw Rivets, Highest Grade English Razor Knife Steel Blades, Uniformly Tempered, CAREFULLY GROUND AND SHARPENED, Glazed Finish.

BUTCHER KNIVES.

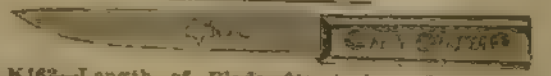
SWAGED BLADE.

Nos.	K160/5	K160/6½	K160/7	K160/8
Length Blade, Inches	6	6½	7	8
Wgt. doz. about, lbs.	3	3½	3½	4
Per dozen	$4.70	5.20	6.50	8.00
Nos.	K160/9	K160/10	K160/12	K160/14
Length Blade, Inches	9	10	12	14
Wgt. doz. about, lbs.	6	7	8	11
Per dozen	$9.50	11.50	16.00	21.00

STICKING KNIVES.

No. K164—Length of Blade 6 in.; Weight per dozen about 3 lbs. ..... Per Dozen, $4.70

BONING KNIVES.

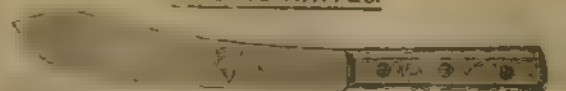


No. K162—Length of Blade 6½ inches; Weight per dozen about 3½ lbs. ..... Per Dozen, $5.70

SKINNING KNIVES.

Nos.	K163/5	K163/6
Length Blade, Inches	5	6
Weight per dozen about, lbs.	2½	3
Per dozen	$4.20	4.70

RIBBING KNIVES.



No. K161—Length of Blade 5 inches. Weight per dozen about 4 lbs. ..... Per Dozen, $10.00

One-half Dozen in a Cardboard Box.

KEEN KUTTER

Highest Grade English Double Shear Butcher Knife Steel Blade, Uniformly Tempered CAREFULLY GROUND AND SHARPENED, Glazed Finish.

BUTCHER KNIVES.

Scale Tang Boxwood Handle, with Brass Pins.

Nos.	K8/6	K8/6½	K8/7	K8/8
Length Blade, Inches	6	6½	7	8
Weight per dozen about, lbs.	2½	3	4	6
Per dozen	$6.50	8.00	9.00	10.50
Nos.	K8/9	K8/10	K8/12	
Length Blade, Inches	9	10	12	
Weight per dozen about, lbs.	4	5½	8	
Per dozen	$13.50	16.00	21.00	

STICKING KNIVES.

No. K8½—Scale Tang Boxwood Handle, with Brass Pins; Blade 6 in. Long; Weight per dozen about 3½ lbs. ..... Per Dozen, $8.50

SKINNING KNIVES.

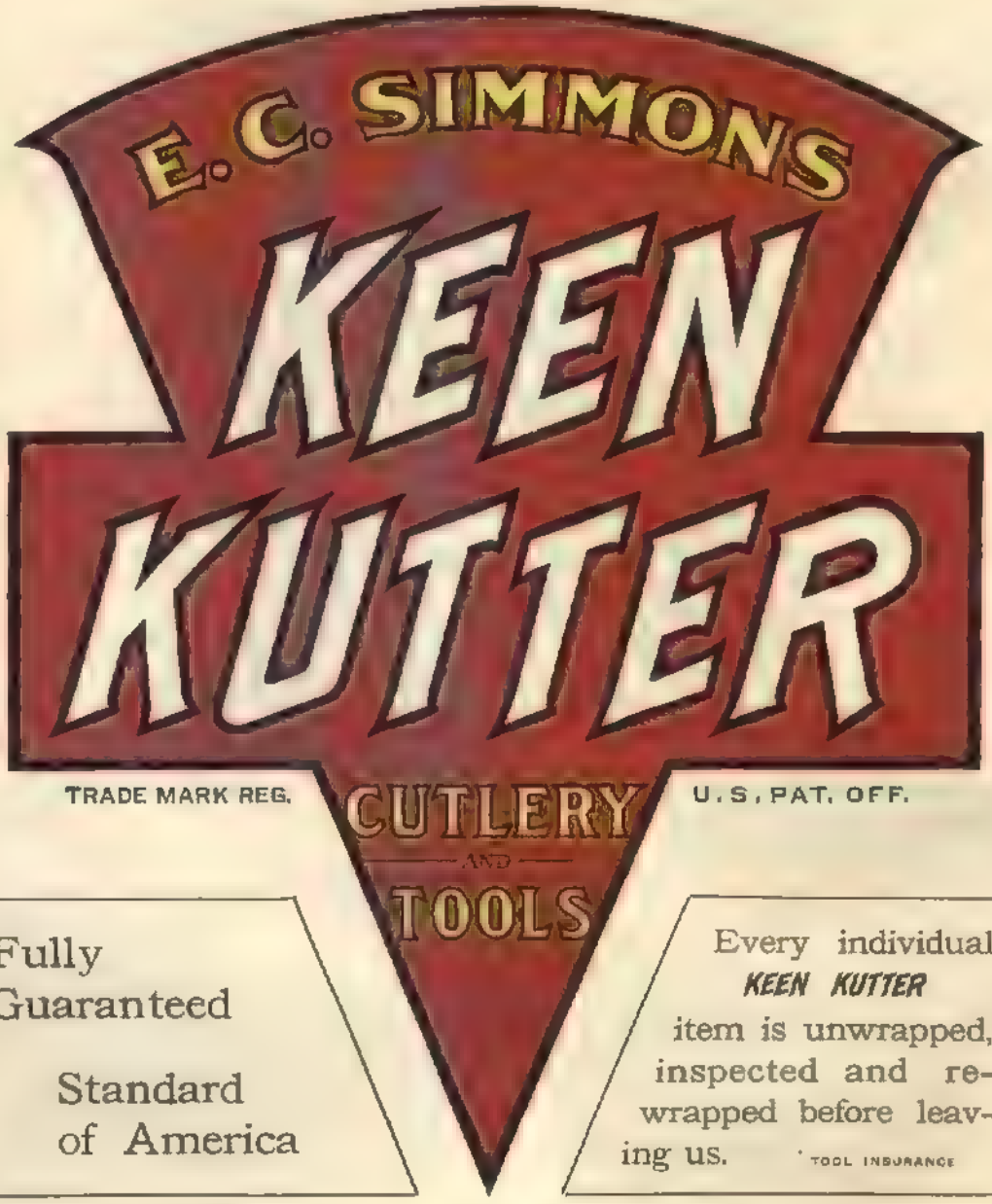
No. K8¾—Scale Tang Boxwood Handle, with Brass Pins; Blade 6 in. Long; Weight per dozen about 3¼ lbs. ..... Per Dozen, $8.00

One-half Dozen in a Cardboard Box.

TOOL "INSURANCE"

WITH every Tool or piece of Cutlery in the ***KEEN KUTTER*** line we sell to a Merchant is included **"Tool Insurance."** In other words, the ***KEEN KUTTER Trade Mark*** on any tool or piece of cutlery means not only that it is the best we are able to turn out, and that it has undergone the strictest inspection, but that in the event of any possible flaw, or dissatisfaction on the part of the user, it is **"insured"** by the Simmons Hardware Company on their liberal guarantee.

That's why merchants can afford to recommend ***KEEN KUTTER*** Tools and Cutlery so highly. They stay sold and make **satisfied customers.**



Fully Guaranteed

Standard of America

Every individual ***KEEN KUTTER*** item is unwrapped, inspected and re-wrapped before leaving us.

TOOL INSURANCE

"THE RECOLLECTION OF QUALITY REMAINS LONG AFTER THE PRICE IS FORGOTTEN" —E. C. Simmons

TRADE MARK REGISTERED U. S. PATENT OFFICE

SIMPLE MAIL ORDERING SYSTEM.

IN WRITING UP YOUR MAIL ORDERS PUT DOWN ONLY THE WORDS AND NUMBERS UNDERSCORED IN THE CATALOG.

NOT NECESSARY TO PUT DOWN ANYTHING ELSE.

SIMPLE, ISN'T IT?

NOTE EXAMPLES BELOW

Page 35

AXES. See the Line

SINGLE AND DOUBLE BIT
KELLY'S PERFECT

DAYTON WIDE HEAD PATTERN
HOLLOW BEVEL
No. 1400P With Cumberland Octagon Handle No. CXXX.
Handled with Cumberland First Selection Hand Shaved Hickory Handle

Wgt. of Head, lbs..	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	65	70	75
Per dozen	$22.50	23.00	23.50

See the Line

1 Dozen Axes No. 1400P 4 to 5.

Use only words and figures that are underscored

Page 202.

CROSS CUT SAWS. See the Line

WITHOUT HANDLES.
DISSTON, WIDE BLADE.

High Grade Crucible Steel; Polished and Etched. Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.

DISSTON'S
Diamond Tooth, No. 1; 14x18 Gauge.

Nos	D1045	D1045½	D1046	D1046½
Length, feet	5	5½	6	6½
Width at Center, inches..	6½	7	7¾	7½
Weight each net abt., lbs	5	6	7	8
Each	$3.50	3.85	4.20	4.55
	3.85	4.25	4.65	5.00

See the Line

6=Cross Cut Saws No. D1046½.

Use only words and figures that are underscored.

Page 301.

FORKS.

WM. ENDERS' KEYSTONE.

Special Crucible Forged Steel Oval Polished Tines; Steel Shank. Select Smooth Belted and Labeled Bent Ash Handle. Gold Bronzed Steel Strap Ferrule and Cap; Tines Tempered and Tested. Well Shaped and Hung; First Class Finish.

HEADER FORKS. See the Line

No EU404½.
CHAMPION PATTERN.
FOUR TINE, ROUND SHOULDER, WITH PLAIN SHANK.
UTAH PATTERN
Short Tines; Junior Spread.
Length of Tines 14 in.;
Spread (extreme width) 9½ in

Nos	EU 404½	EU 405	EU 405½
Length of Handle, feet	4½	5	5½
Weight per dozen about, lbs...	40	42	44
Per dozen	$14.00	14.50	15.00

See the Line

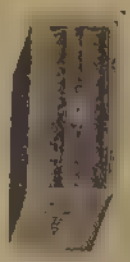
½ Dozen Header Forks No. EU405½.

Use only words and figures that are underscored

This system of numbers is utilized throughout the entire catalog, and if when ordering goods you will only give the numbers and description under which the heavy black line appears, you will need to go to no further trouble as to description, and it will greatly facilitate our handling of your orders and inquiries, and will enable us to do so in a most intelligent and satisfactory manner.

DISPLAY BOXES.

KEEN KUTTER.



Made of Cardboard, Skytogen (Cloth, Imitation Leather) Covered, Black Color; Green Plush Lined Sunk Top, Grooved for Displaying Two Pocket Knives; Bottom of Cover fitted with a Brass Catch which may be turned so as to rest on the Upper Edge of the End of the Box, thus giving a slant to Cover; Celluloid Button Lift, ½ in. in Diameter, in the Center of the Cover, showing *KEEN KUTTER* Trade Mark in the Colors; also the Retail Selling Price; *KEEN KUTTER* Trade Mark in three Colors on Front of Box.

No. K408½—Length, Inside 4½ in.; Width 2⅝ in.; Height Outside 3⅝ in. $0.15

No. K408—Length, Inside 4½ in.; Width 2½ in.; Height Outside 2¾ in. ..... .15½

Made of Cardboard, Skytogen Covered, Black Color; Plush Top for Displaying Shears and Scissors, Celluloid Button Lift, ½ inch in Diameter, at One End of Cover, showing the *KEEN KUTTER* Trade Mark in Three Colors on Front of Box.

FOR SHEARS

With Retail Selling Price on Button.

Nos.	K401	K402	K403
Length, Inside Measurement, Inches	7½	8	11
Width, Inside Measurement Inches	3½	3⅝	4¼
Height, Outside Measurement, Inches	2¾	2⅞	3⅛
Weight each about, lbs.	¼	¼	¼
Each	$0.20	.30	.36

FOR SCISSORS

With Retail Selling Price on Button.

Nos.	K404	K405	K406
Length, Inside Measurement, Inches	4½	6½	8¼
Width, Inside Measurement, Inches	2½	2⅝	3
Height, Outside Measurement, Inches	2⅜	2⅝	2⅞
Weight each about, lbs.	1/8	⅛	⅛
Each	$0.15	.18	.20

FOR RAZORS

KEEN KUTTER Trade Mark Only on Button

No.	K409
Length, Inside Measurement, Inches	3¼
Width, Inside Measurement, Inches	⅝
Height, Outside Measurement, Inches	⅞
Weight each about, lbs.	⅛
Each	$0.20

FOR TABLE CUTLERY

KEEN KUTTER Trade Mark Only on Button.

No.	K407
Length, Inside Measurement, Inches	3¼
Width, Inside Measurement, Inches	3
Height, Outside Measurement, Inches	2⅝
Weight each about, lbs.	¼
Each	$0.20

Packed Loose.

DISPLAY BOXES.

Made of Cardboard, Skytogen (Cloth Imitation Leather) Covered, Black Color; Green Plush Lined Sunk Top, Grooved for Displaying Two Pocket Knives; Bottom of Cover fitted with a Brass Catch which may be turned so as to rest on the Upper Edge of the End of the Box, thus giving a slant to Cover; Celluloid Button Lift, ½ in. in Diameter, in the Center of the Cover, showing *KEEN KUTTER* Trade Mark in the Colors; also the Retail Selling Price; *KEEN KUTTER* Trade Mark in three Colors on Front of Box. [illegible]

No. K308—Lined with *KEEN KUTTER* Label, in Five Colors; *KEEN KUTTER* Trade Mark, in Three Colors, on Front of Box. [illegible]

No. W308—Lined with Walden Label and Yellow Glaze Covering; without *KEEN KUTTER* End Label. [illegible]

No. E508—Lined with OAK LEAF Label, and Maroon Glaze Covering; OAK LEAF Trade Mark in Three Colors on Front of Box. [illegible]

Packed Loose. Weight Each about 1/5 lb

KEEN KUTTER

Made of Cardboard, Skytogen Covered, Dark Green Color; Sunk Top with Hinged Cover and Tape Lift; Top Cover with *KEEN KUTTER* Label, in Five Colors; *KEEN KUTTER* Trade Mark, in Three Colors on Front of Box.

FOR SHEARS

Nos.	K301	K302	K303
Length, Inside Measurement, Inches	7½	8	11
Width, Inside Measurement, Inches	3½	3⅝	4¼
Height, Outside Measurement, Inches	2⅝	2¾	3
Weight each about, lbs.	⅛	⅛	¼
Each	$0.10	.14	.18

FOR SCISSORS

Nos.	K304	K305	K306
Length, Inside Measurement, Inches	4½	6	8
Width, Inside Measurement, Inches	2½	2⅝	3
Height, Outside Measurement, Inches	2⅜	2¾	2⅞
Weight each about, lbs.	1/8	⅛	⅛
Each	$0.10	.12	.15

FOR RAZORS

No.	K309
Length, Inside Measurement, Inches	3¼
Width, Inside Measurement, Inches	⅝
Height, Outside Measurement, Inches	⅞
Weight each about, lbs.	1/5
Each	$0.10

FOR TABLE CUTLERY

No.	K307
Length, Inside Measurement, Inches	3¼
Width, Inside Measurement, Inches	⅝
Height, Outside Measurement, Inches	⅞
Weight each about, lbs.	¼
Each	$0.10

OAK LEAF.

Made of Cardboard, Skytogen Covered, Maroon Color, Sunk Top with Hinged Cover and Tape Lift; Top Cover with OAK LEAF Trade Mark in Six Colors; OAK LEAF Trade Mark in Three Colors on Front of Box

FOR SHEARS

Nos.	E301	E302	E303
Length, Inside Measurement, Inches	7½	8	11
Width, Inside Measurement, Inches	3½	3⅝	4¼
Height, Outside Measurement, Inches	2⅝	2¾	3
Weight each about, lbs.	⅛	⅛	¼
Each	$0.10	.14	.18

FOR SCISSORS

Nos.	E304	E305	E306
Length, Inside Measurement, Inches	4½	6	8
Width, Inside Measurement, Inches	2½	2⅝	3
Height, Outside Measurement, Inches	2⅜	2¾	2⅞
Weight each about, lbs.	1/8	⅛	⅛
Each	$0.10	.12	.15

Packed Loose

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

Our shipping facilities are unequaled.

We invite correspondence

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act.

PRIZES AWARDED *KEEN KUTTER** CUTLERY.

FAC SIMILE CERTIFICATE OF GRAND PRIZE AWARDED TO SIMMONS HARDWARE COMPANY FOR *KEEN KUTTER* CUTLERY.

PRIZES AWARDED *KEEN KUTTER** CUTLERY.

GRAND PRIZE

Awarded to the SIMMONS HARDWARE COMPANY for the SUPERIOR EXCELLENCE OF QUALITY AND FINISH of their *KEEN KUTTER* CUTLERY in competition with the World's Best Productions, by the International Jury of Awards, at the LOUISIANA PURCHASE EXPOSITION, held at St. Louis Mo., U. S. A., 1904.

PRIZES AWARDED *KEEN KUTTER** CUTLERY.

HIGHEST AWARD

Given to the WALDEN KNIFE COMPANY AND SIMMONS HARDWARE COMPANY for the SUPERIOR EXCELLENCE OF QUALITY AND FINISH of their WALDEN and *KEEN KUTTER* POCKET KNIVES, in competition with the World's Best Productions at the LEWIS AND CLARK CENTENNIAL EXPOSITION, Portland, Oregon, U. S. A., 1905.

LAWN MOWERS.

KEEN KUTTER

Bottom View, Showing Manner of Adjustment

Double Gearing

No. KNDH14 Series.

Sectional Cut of Ratchet and Bearings

KEEN KUTTER DOUBLE GEAR, BALL BEARING.

Highest Grade Cast Side Frames, Spoke Flange Raised Drive Wheels, Gear Castings and Bed Plate, all Thoroughly Braced and Reinforced. Highest Grade Crucible Steel Oil Tempered Revolving Knives and Adjustable and Self-sharpening Bed Knife, securely screwed to Reinforced Bed Plate; Malleable Reel Braces and Adjustable Roller Brackets, with Hook Extension for Grass Catcher; Heavy Cast Drive Wheel Bearing and Steel Ball Bearing Reel Axle; Double Gearing on both sides with Steel Bushed Hardened Gear and Double Sliding Steel Pin Ratchet, Double Screw Adjustment for Cones and Ball Retainer to Compensate for Wear; Simple and Strong Rocking Adjustment for Lower Steel Bed Knife, worked from Lower Side, Steel Handle Braces; Extra Varnished 3½ ft. Clear White Maple Handle and Hardwood Roller 2⅝ in. in Diameter; Patent Non-loosening Clamp Attachment for Handle Bar; All Running Parts carefully Milled; Metal Parts Extra Finished, Painted Crimson and Gold Bronzed.

KEEN KUTTER DOUBLE GEAR, HIGH WHEEL.

With Five Reel Knives; Diameter of Drive Wheel 11 in.; Front Bar 1⅛ in.; Reel Axle ⅝ in.; Bearing on Drive Wheel Hub 2⅛ in., Adjustable to cut grass to a height of ½ to 1½ in.; Will cut grass standing about 8 in. high.

Nos.	KNDH14	KNDH16	KNDH18	KNDH20
Width of Cut, Inches	14	16	18	20
Diameter of Reel, in.	6	6	6	6
Extreme Width, in.	19¾	21½	23¾	25¾
Weight each abt. lbs.	52	54	59	62
Each	$16.50	17.50	18.00	20.50

KEEN KUTTER DOUBLE GEAR, LOW WHEEL.

With Four Reel Knives; Diameter of Drive Wheel 9 in.; Front Bar ⅝ in., Reel Axle ⅝ in.; Bearing on Drive Wheel Hub 2⅛ in., Hardwood Roller 2 in. in Diameter. Adjustable to cut grass to a height of ½ to 1 in.; Will cut grass standing about 5½ in. high.

Nos.	KNDL12	KNDL14	KNDL16	KNDL18
Width of Cut, Inches.	12	14	16	18
Diameter of Reel, in.	5½	5½	5½	5½
Extreme Width, in.	17⅝	19⅝	21⅝	23⅝
Wgt. each abt. lbs.	44	45	48	50
Each	$10.50	12.00	13.00	14.50

One in a Wood Box.

Extra Parts for *KEEN KUTTER* Lawn Mowers are Carried in Stock and can be Included with Orders for Other Goods.

SPECIAL FEATURES OF *KEEN KUTTER* DOUBLE GEAR BALL BEARING LAWN MOWERS.

BALL BEARING REEL—Accurate, Smooth, Running, with Simple Adjustment.

FIVE REVOLVING KNIVES ON HIGH WHEEL PATTERN—Close and Continuous Cut.

LOWER ROCKING ADJUSTMENT—Convenient, Simple, Positive.

STEEL PIN RATCHET—Never Fails to act; will not wear out.

STEEL BUSHED REEL COG—Large Bearing, Lessening Wear on Pinion and Axle.

ALL PARTS MECHANICALLY ACCURATE—Insuring Minimum Wear and Ease of Running.

LAWN MOWERS.

SIMMONS KEEN KLIPPER BALL BEARING.

Low Wheel

Sectional Cut of Ratchet and Bearings

Showing Double Gearing.

High Wheel.

Showing Application of Ball Bearings.

High Grade Cast Side Frames, Spoke Pattern Drive Wheels, Gear Castings and Bed Plate Four Tempered Crucible Steel Revolving Cutter Blades and Adjustable and Self-sharpening Bed Knife, Steel Cross Bar, Solid Axle, Open Reel; Adjustable Reinforced Cutter Bar; Steel Cones; Double Gearing on Both Sides; Double Steel Pin Ratchets; Adjustable Hardwood Roller, Wrought Iron Handle Braces, and 3½ ft. Hardwood Varnished Handle; Entire Mower Handsomely Finished in Blue and Gold.

SIMMONS KEEN KLIPPER DOUBLE GEAR; LOW WHEEL.

Diameter of Drive Wheel 8½ in.; Front Axle ⅝ in.; Reel Axle ⅝ in.; Axle has 2½ in. Bearing on Drive Wheel Hub; Hardwood Roller 2 in. in Diameter; Adjustable to cut grass to height ⅛ to 1⅜ in.

Nos.	LO 14	LO 16	LO 18
Width of Cut, inches	14	16	18
Diameter of Reel, inches	5½	5½	5½
Extreme Width, inches	18⅝	20⅝	22⅝
Weight each about, lbs.	45	48	50
Each	$12.00	13.00	14.50

SIMMONS KEEN KLIPPER DOUBLE GEAR; HIGH WHEEL.

Diameter of Drive Wheel 11 in.; Front Axle 1⅛ in.; Reel Axle ⅝ in.; Axle has 2½ in. Bearings on Drive Wheel Hub; Hardwood Roller 2½ in. in Diameter; Adjustable to cut grass to height ½ to 1¾ in.

Nos.	HO 14	HO 16	HO 18	HO 20
Width of Cut, Inches	14	16	18	20
Diameter of Reel, Inches	6½	6½	6½	6½
Extreme Width, Inches	18½	20½	22½	24½
Weight each about, lbs.	55	60	62	65
Each	$16.50	17.50	18.00	20.50

One in a Wood Box.

EXTRA PARTS FOR SIMMONS KEEN KLIPPER LAWN MOWERS ARE NOT CARRIED IN STOCK; CAN ONLY BE FURNISHED BY BEING SHIPPED DIRECT FROM FACTORY.

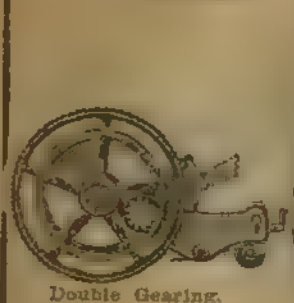
By making frequent calls on our Mail Order Department you will be able to keep your stock complete and up-to-date, and hold your trade at home

LAWN MOWERS.

ROLO*.

No. Ro. 14.

Sectional Cut of Ratchet and Bearings



Double Gearing.

Bottom View, Showing Manner of Adjustment.

ROLO* DOUBLE GEAR, BALL BEARING.

Highest Grade Cast Side Frames; Steel Pattern Flanged Drive Wheels; Gear Casings and Bed Plate Securely Braced. Four Tempered Crucible Steel Revolving Cutter Blades, and Adjustable and Self-sharpening Bed Knife; Steel Connecting Bar; Solid Axle, Open Reel Adjustable Re-inforced Cutter Bar; Steel Cones; Double Gearing on Both Sides; Double Steel Pin Ratchets; Adjustable Vanadium Hardened Rollers; Wrought Iron Handle Braces, and 3¼ ft. Varnished Hardwood Handle, Entire Mower Finished in Blue and Gold.

Diameter of Drive Wheels 9 in.; Front Axle 9/16 in.; Reel Axle 9/16 in.; Axle has 1¾ in. Bearing on Drive Wheel Hub; Adjustable to Cut Grass to Height ½ to 1¾ in.

Nos.	RO/14	RO/16	RO/18
Width of Cut, inches	14	16	18
Diameter of Reel, inches	5½	5½	5½
Extreme Width, inches	18½	20½	22½
Weight each about, lbs	45	47	50
Each	$8.00	9.50	10.50

One in a Wood Box.

BALL BEARING REEL—Accurate, Smooth Running, with Simple Adjustment.
LOWER ROCKING ADJUSTMENT—Convenient, Simple, Positive.
STEEL PIN RATCHET—Never Fails to Act; will not wear out.

**OAK LEAF*
HIGH WHEEL.**

Extra Strong Cast Iron Side Frames and Bed Plate, Pivoted on Steel Cones; Crucible Steel Bed Knife and Revolving Blades; Set Screw Rocking Adjustment, Worked from Upper Side; Spoke Flange Raised Cast Iron Drive Wheels, 9 in. in Diameter; ⅝ in. Steel Axle and Front Connecting Bar; Four Revolving Blades, with Malleable Reel Bushings; Steel Cones and Cups; Direct Gearing, with Malleable Gears and Pawls on each Side; Steel Handle Braces Fasten on Inside of Side Frames; 3 ft. Varnished Hardwood Handle.

OAK LEAF*, BALL BEARING.
Painted Aluminum and Gold Bronze.

Adjustable to Cut Grass to a Height of 1 to 1¼ in.; Will Cut Grass Standing about 6 in. High.

Nos.	1.14	1.16	1.18
Width of Cut, inches	14	16	18
Diameter of Reel, inches	5½	5½	5½
Extreme Width, inches	19	21	23½
Weight each about, lbs	45	47	51
Each	$8.50	9.00	9.50

One in a Wood Box.

EXTRA PARTS FOR LAWN MOWERS NOT CARRIED IN STOCK; CAN ONLY BE FURNISHED BY BEING SHIPPED DIRECT FROM FACTORY

LAWN MOWERS.

WINNER*, PLAIN BEARING, LOW WHEEL.

Extra Strong Cast Iron Side Frames and Bed Plate, Steel Self-sharpening Bed Knife, with Inside Set Screw Rocking Adjustment; Heavy Spoke Flange Raised Drive Wheels, 8 in. in. Diameter; ⅝ in. Steel Axle; Improved ⅝ in. Steel Front Bar; Four tempered Steel Revolving Blades, with Malleable Reel Braces; Phosphor Bronze Reel Bushings; Direct Gearing, with Hardened Pinions and Ratchets; Steel Handle Braces; 3 ft. Varnished Hardwood Handle; Painted Light Blue and Gold; Phosphor Bronze Reel Bushings; Adjustable to cut grass to a height of ⅜ to 1½ in.; Will cut grass standing about 5 in. high

Nos.	EL9/12	EL9/14	EL9/16	EL9/18
Width of Cut, inches	12	14	16	18
Diameter of Reel, inches	5½	5½	5½	5½
Extreme Width, inches	17	19	21	23
Weight each about, lbs	38	40	41	43
Each	$6.90	7.10	7.40	7.70

WINNER*, HIGH WHEEL.

Extra Strong Cast Iron Side Frames and Bed Plate, Steel Self-sharpening Bed Knife with Inside Set Screw Rocking Adjustment; Heavy Spoke Flange Raised Drive Wheels, 16 in. in Diameter; ⅝ in Steel Axle; Improved ⅝ in. Steel Front Bar; Four Tempered Steel Revolving Blades, with Malleable Reel Braces; Direct Gearing, with Hardwood Pinions and Ratchets; Steel Handle Braces, 3 ft. Varnished Hardwood Handle

WINNER*, PLAIN BEARING.

Painted Light Blue and Gold; Phosphor Bronze Reel Bushings; Adjustable to cut grass to height of ⅜ to 1½ in. Will cut grass standing about 6 in. high.

Nos.	EB9/14	EB9/16	EB9/18	EB9/20
Width of Cut, inches	14	16	18	20
Diameter of Reel, inches	6	6	6	6
Extreme Width, inches	19	21	23	25
Weight each about, lbs	46	50	54	58
Each	$8.00	9.50	10.00	11.50

WINNER*, BALL BEARING.
Painted Light Blue and Gold.

Adjustable to Cut Grass to a Height of ¾ to 1 in.; Will cut grass standing about 6 in. high.

Nos.	EB9/14	EB9/16	EB9/18	EB9/20
Width of Cut, inches	14	16	18	20
Diameter of Reel, inches	6	6	6	6
Extreme Width, inches	19	21	23	25
Weight each about, lbs	46	50	54	58
Each	$11.50	12.00	12.50	13.50

One in a Wood Box.

POSITIVE ADJUSTMENT worked from inside of the side frame by set screw, where the tendency of tightening the adjustment will not be to spring the lower bar away from the revolving knives, but to bring it in closer contact with them.

REINFORCED CROSS BAR on the Handle, which will not break or come off.

PHOSPHOR BRONZE BEARINGS (except on No. EB9/14 Series) Extra Hard and almost Wear-proof.

RAISED DRIVE WHEELS, lifting Gearing away from Dirt and Sand.

BALL BEARINGS (on No. EB9/14 Series).

HEAVY STEEL BRACE ROD in Front, Larger and Stronger than other Mowers.

HEAVY "SPIDER" or reel braces, preventing breakage and springing of the knives.

EXTRA PARTS FOR LAWN MOWERS NOT CARRIED IN STOCK; CAN ONLY BE FURNISHED BY BEING SHIPPED DIRECT FROM FACTORY.

MACHINISTS' TOOL ASSORTMENTS.

No. K60.

KEEN KUTTER

An Assortment of *KEEN KUTTER* Machinists' Tools put up in an attractive Oak Display Case; Beveled Front, Golden Oak Finish, Inside Lined with Green Felt. The Glass Door on Front is Hinged and Furnished with Lock and Two Keys; The Back of Case is so Constructed that a Duplicate Stock of Tools can be Carried, and is Supplied with Two Hinged Doors Complete with Lock and Two Keys.

No. K50—24 in. Wide; 33¾ in. High; Weight each about 75 lbs. ..... Each, $62.00

CONTAINS THE FOLLOWING TOOLS:

1 No. K64 Divider	1 No. K58 Caliper
1 No. K6 Divider	1 No. K510 Caliper
1 No. K68 Divider	1 No. K5 Screw Pitch Gauge.
1 No. K64 Caliper.	1 No. K7 Screw Pitch Gauge.
1 No. K6 Caliper	1 No. K40 Speed Indicator.
1 No. K38 Caliper	1 No. K60 Speed Indicator.
1 No. K24 Caliper	1 No. K 6 Steel Rule.
1 No. K26 Caliper	1 No. K 2 Steel Rule
1 No. K8 Caliper	1 No. K100 Bevel Protractor
1 No. K6 Caliper	1 No. K112 Bevel Protractor
1 No. K38 Caliper	1 No. K60 Combination Square.
1 No. K410 Caliper.	1 No. K90 Combination Square
1 No. K56 Caliper.	1 No. K120 Combination Square

No. K60—26½ in. Wide; 38 in. High; Weight each about 110 lbs. ..... Each, $112.00

CONTAINS THE FOLLOWING TOOLS:

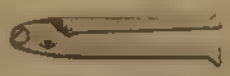
2 No. K4 Calipers	2 No. K54 Dividers.
3 No. K6 Calipers	3 No. K66 Dividers
2 No. K8 Calipers.	2 No. K68 Dividers
2 No. K4 Calipers.	1 No. K5 Screw Pitch Gauge.
3 No. K24 Calipers.	1 No. K7 Screw Pitch Gauge.
2 No. K8 Calipers.	2 No. K304 Steel Rules.
3 No. K26 Calipers.	3 No. K306 Steel Rules.
2 No. K8 Calipers.	2 No. K309 Steel Rules.
1 No. K6 Caliper	3 No. K312 Steel Rules
1 No. K424 Caliper	1 No. K100 Bevel Protractor.
1 No. K424 Caliper.	1 No. K112 Bevel Protractor.
1 No. K426 Calipers.	2 No. K60 Combination Squares
1 No. K4 Caliper	2 No. K90 Combination Squares.
1 No. K8 Caliper	1 No. K120 Combination Squares.
1 No. K510 Caliper	3 No. K9 Combination Squares
1 No. K512 Caliper	1 No. K12/C Combination Square.
1 No. K514 Caliper.	1 No. K40 Speed Indicator.
1 No. K516 Caliper.	1 No. K60 Speed Indicator.

One Assortment Packed in a Wood Box.

CALIPERS.

STANDARD

Stamped from Sheet Steel, Polished, Heavy Beveled Iron Rivet at Joint.



INSIDE

Nos.	64	66	68	610	612
Length, inches	4	6	8	10	12
Weight per dozen ... about, ...	1	1½	2¾	3½	4½
Per dozen	$2.85	$3.75	$5.25	$6.50	$8.50
	2.50	3.20	4.60	5.60	6.80

One Dozen in a Cardboard Box

OUTSIDE

Nos.	74	76	78	710	712
Length, inches	4	6	8	10	12
Weight per dozen about lbs...	1	2	4	6	8
Per dozen	$2.85	3.75	5.25	6.50	8.50
	2.50	3.20	4.60	5.60	6.80

One-half Dozen in a Cardboard Box.

DOUBLE INSIDE AND OUTSIDE

Nos.	94	96
Length, in.	4	6
Wgt. doz. abt., lbs.	1	2
Per dozen	$4.25	6.00
	3.70	5.10

One Dozen in a Cardboard Box

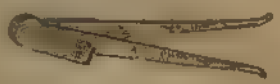
No. 5—WING OUTSIDE. Length 6 in.; Weight per dozen about 3 lbs. Per Dozen ..... $3.60, 2.20. One-half Dozen in a Cardboard Box

Per Dozen

No. 8—FANCY INSIDE AND OUTSIDE. Length 2½ in.; Weight per dozen about ½ lb. $3.50 $3.80

One Dozen in a Cardboard Box.

STARRETT'S LOCK JOINT; Forged from Finest Tool Steel, Finely Polished; Heavy Clamping Thumb Screw at Joint.



STARRETT'S INSIDE TRANSFER.

Nos.	374	376	378	3710	3712
Length, in.	4	6	8	10	12
Wgt. per doz' abt. lbs...	2	3½	6	8	12
Per dozen	$15.00	18.00	21.00	24.00	27.00
	24.50	29.00	33.50	38.00	42.50

Can be used as a Common Caliper and also for use inside of chambered cavities, over flanges, etc.; Removed, and replaced without losing the Size Caliper is set. This is done by loosening the Nut binding one Arm to the Auxiliary Leaf and Swinging it out or in while the Joint is locked, to clear the obstruction, then moving it back against stop, where it will show the exact size measured.

STARRETT'S OUTSIDE TRANSFER

Nos.	364	366	368	3610	3612
Length, in.	4	6	8	10	12
Wgt. per doz. abt., lbs...	3	4	6	8	12
Per dozen	$15.00	18.00	21.00	24.00	27.00
	24.50	29.00	33.50	38.00	42.50

One-quarter Dozen in a Cardboard Box.

CALIPERS.

STARRETT'S Yankee Forged from Finest Tool Steel [illegible] Spring and Best Steel Adjusting Screw, with Nut.

INSIDE.

Nos.	814	816
Length, inches	4	6
Weight per dozen about, lbs	1½	1⅝
Per dozen	$ 9.50	10.20
	11.50	16.30

OUTSIDE.

Nos.	791	794	796	798
Length, inches	3	4	6	8
Weight per dozen about, lbs	1⅛	1⅝	2⅛	3
Per dozen	$ 8.40	9.00	10.20	12.00
	13.80	14.50	16.50	19.00

One-fourth Dozen in a Cardboard Box.

DRAWING DIVIDERS.

Polished Brass Legs, with Steel Tips.

	Per Dozen
No. 1204—LENGTH 4 IN. Weight per dozen about [illegible]	$6.30
No. 205—LENGTH 5½ IN. Weight per dozen about [illegible]	8.50

Packed Loose.

BOW SPACERS.

SPRING BOW SPACER. German Silver; Metal Handle.

No. 170—LENGTH 2½ IN. Weight per dozen about [illegible] Per Dozen, $17.80

Packed Loose.

DRAWING PENS.

SPRING BOW PEN. German Silver, Metal Handle.

No. 178—LENGTH 3½ IN. Weight per dozen about [illegible] Per Dozen, $24.00

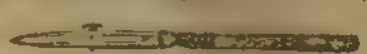
Packed Loose.

RULING PENS.

German Silver; Bone Handle.

No. 17 [illegible]

	Per Dozen
No. 170—LENGTH 4 IN., WITH FOUR JOINT [illegible] Weight per dozen about ⅛ lb.	$5.00
No. 181—LENGTH 4½ IN., WITH INVERTED [illegible] Weight per dozen about ⅛ lb.	15.00



	Per Dozen
No. 182—LENGTH 4½ IN., WITH INVERTED BLADE. Weight per dozen about ½ lb.	$15.00

Packed Loose.

TRIANGLES.

CELLULOID TRANSPARENT.

Open Center. Made in One Piece.

Angles 30, 60 and 90 Degrees.

Nos.	2824	2826	2828	28210
Height, inches	4	5	6	7
Weight per doz. about, lbs.	⅛	¼	½	¾
Per dozen	$3.80	5.50	8.00	11.50

Angles 45, 45 and 90 Degrees.

Nos.	2834	2836	2838	28310
Height, inches	4	5	6	7½
Weight per doz. about, lbs.	⅛	½	¾	1
Per dozen	$5.30	8.00	12.00	14.00

POLISHED PEAR-WOOD; Open Center; Joints Framed and Glued.

Angles 30, 60 and 90 Degrees.

Nos.	2847	2849	28111	28413
Height, inches	7	9	11	13
Weight per doz. about, lbs.	⅝	¾	1	1¼
Per dozen	$3.60	6.00	6.50	7.00

Angles 45, 45 and 90 Degrees.

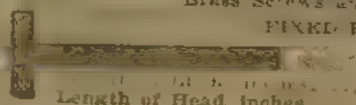
Nos.	2855	2857	2859	28511
Height, inches	5	7	9	11
Weight dozen about, lbs.	⅛	¾	1	1¾
Per dozen	$3.80	4.80	5.80	6.80

Packed Loose.

T SQUARES.

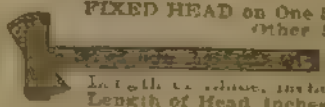
POLISHED PEAR-WOOD. Heads secured with Four Brass Screws and Glued.

FIXED HEAD.



	1P24	1P30	1P36
Length of Blade, inches	24	30	36
Length of Head, inches	9	10	11
Weight per dozen about, lbs.	3	2½	6
Per dozen	$7.40	8.50	10.50

FIXED HEAD on One Side, Swivel Head on Other Side.



	2P24	2P30	2P36
Length of Blade, inches	24	30	36
Length of Head, inches	9	10	11
Weight per dozen about, lbs.	6	6	7
Per dozen	$14.00	15.00	16.50

Packed Loose.

PROTRACTORS.

BRASS. Finely Polished Edges and Lines Stamped. Half Circle; used for Finding Angles.

	Per Dozen
No. 238—LENGTH 4 IN.; Graduated in Degrees	$ 6.00
No. 239—LENGTH 5 IN.; Graduated in Degrees and Half Degrees	13.00
No. 240—LENGTH 6 IN.; Graduated in Degrees and Half Degrees	15.00

Packed Loose; Weight per Dozen about ½ lb.

TRIANGULAR SCALES.

Length 12 In.; Divided to Scales of 3, 31, 3, 16, 3, 8, 3, 4, 1, 1½, 1, 2, 1, 3, 1, 4, 1, 6, 1, 8, 1, 12 to the ft. and 1 and 16ths; Width ⅞ in.

	Per Dozen
No. 644—POLISHED ROLLED STEEL; Weight per dozen about 2 lbs.	$62.00
No. 64 BOXWOOD; Scales Polished; Weight per dozen about 1 lb.	10.50

Packed Loose.

—1919—

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades, Uniformly Tempered, SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE

No. K0798A.

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining.

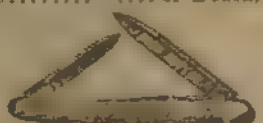
Per Dozen

No. K0798A—3⅝ IN. PEARL HANDLE; Hand Engraved Aluminum Bolsters $17.00

No. K0798—3⅝ IN. PEARL HANDLE; German Silver Bolsters. 16.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Tips and Shield, Brass Lining.

No. K27121—3⅝ IN. PEARL HANDLE.....Per Dozen, $15.00



No. K028.

Full Polished Blades, German Silver Bolster; Brass Lining.

Per Dozen

No. K028—3⅝ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen.....$14.00

No. K028S—2⅝ IN. PEARL HANDLE TWO BLADES, 1 Large Spear Point and 1 File..... 14.00

No. K20—3⅛ IN. PEARL HANDLE, TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.....Per Dozen, $14.00

K013.

Half Polished Blades; German Silver Bolsters, Brass Lining.

Per Dozen

No. K013—3⅝ IN. PEARL HANDLE, TWO BLADES, 1 Pen and 1 File $12.00

No. K02S—2⅝ IN. PEARL HANDLE TWO BLADES, 1 Large Spear Point and 1 Pen..... 14.00

PHYSICIAN'S PATTERN

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Steel Bolster; German Silver Cap; Brass Lining.

No. K2000—3⅝ IN. PEARL HANDLE.....Per Dozen, $34.00

PHYSICIAN'S PATTERN

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster and Cap; Brass Lining.

No. K26004—3⅛ IN. PEARL HANDLE.....Per Dozen, $25.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished, German Silver Bolster, Cap and Shield, Brass Lining.

No. K22204—3⅛ IN. PEARL HANDLE.....Per Dozen, $25.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Bolster and Cap; Brass Lining

No. K2404—3 IN. PEARL HANDLE.....Per Dozen, $22.00

TWO BLADES, 1 Large Spear Point and 1 Spatula, Full Polished, Steel Bolster; German Silver Cap; Brass Lining

No. K5004—3⅛ IN. PEARL HANDLE .....Per Dozen, $28.00

No. K2003

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Steel Bolster, German Silver Cap; Brass Lining.

Per Dozen

No. K2003—3⅝ IN. STAG HANDLE $15.00

No. K2001—3⅝ IN. BUFFALO HORN HANDLE..... 16.00

TWO BLADES, 1 Large Sheep Foot Point and 1 Pen, Half Polished; Steel Bolster; German Silver Cap, Brass Lining.

No. K2703—3⅝ IN. STAG HANDLE.....Per Dozen, $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster and Cap, Brass Lining.

Per Dozen

No. K2803—3⅝ IN. STAG HANDLE (Heavy Pattern).....$15.00

PHYSICIAN'S PATTERN.

TWO BLADES, 1 Large Spear Point and Spatula, Full Polished; Steel Bolster; German Silver Cap; Brass Lining.

No. K8 003—3⅛ IN. STAG HANDLE. .....Per Dozen, $16.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; German Silver Bolster, Cap and Shield; Brass Lining

No. K22203—3⅛ IN. STAG HANDLE.....Per Dozen, $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen; Full Polished; German Silver Bolster and Cap; Brass Lining.

No. K20001 3⅝ IN. BUFFALO HORN HANDLE..Per Dozen, $14.00

TWO BLADES, 1 Large Spear Point and 1 Pen; Full Polished; German Silver Bolster and Cap; Brass Lining.

No. K20003—3⅝ IN. STAG HANDLE .....Per Dozen, $14.00

14K SOLID GOLD HANDLE

FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File; Full Polished; Full Milled Center Scale, Back Hand Burnished; Brass Lining.

No. K4406—3⅛ IN. 14K. SOLID GOLD HANDLE Per Dozen, $350.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs

1920

POCKET KNIVES.

KEEN KUTTER

Highest Grade English Crucible Steel Blades Uniformly Tempered SHARPENED AND WHETTED ON AN OIL STONE, BY HAND, READY FOR USE.

STERLING SILVER HANDLES

No. K5440/SS
MASONIC

Full Polished; German Silver Lining.

Per Dozen

No. K5440 SS—3 IN. STERLING SILVER HANDLE; THREE BLADES, 1 Pen, 1 Nail Scissor and 1 Nail File $62.00

No. K4840 SS—3 IN. STERLING SILVER HANDLE; FOUR BLADES, 1 Large Spear Point, 1 Pen, 1 Nail Scissor and 1 Nail File 68.00

GRAPE DESIGN

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File; Full Polished, German Silver Lining.

No. K5035 SSG—3¼ IN. STERLING SILVER HANDLE..Per Doz., $56.00

INDIAN DESIGN

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished; German Silver Lining.

No. K5035 SSM—3¼ IN STERLING SILVER HANDLE..Per Doz., $56.00

[illegible]

THREE BLADES, 1 Large Spear Point, 1 Pen [illegible] Nail File; Full Polished, German Silver Lining

No. K56[illegible] SS [illegible] IN. STERLING [illegible] LVER HANDLE..Per Doz., $56.00

MASONIC.

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File; Full Polished; German Silver Lining.

No. K5037 SS—3¼ IN. STERLING SILVER HANDLE..Per Doz., $56.00

STERLING SILVER HANDLES

KNIGHTS OF PYTHIAS.

THREE BLADES, 1 Large Spear Point, 1 Pen, 1 Nail File; Full Polished; German Silver Lining.

No. K5039 SS—3¼ IN. STERLING SILVER HANDLE..Per Doz., $56.00

ODD FELLOWS

No. K5040 SS—3¼ IN. STERLING HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File; Full Polished; German Silver Lining....Per Dozen, $56.00

No. K440/SS.

Full Polished Blades; German Silver Lining.

Per Dozen

No. K440 SS—3¼ IN. STERLING SILVER HANDLE, FOUR BLADES, 1 Large Spear Point, 2 Pens and 1 File.....$50.00

No. K6255 SS—3¼ IN. STERLING SILVER HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen $35.00

No. K[illegible] SS—3¼ IN. STERLING, SILVER HANDLE; THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File 44.00

No. K6255/SS.

Full Polished Blades; German Silver Lining.

Per Dozen

No. K6285 SS—3 IN STERLING SILVER HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen $35.00

No. K6585 SS—3 IN STERLING SILVER HANDLE, THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File 42.00

No. K485 SS—3 IN STERLING SILVER HANDLE; FOUR BLADES, 1 Large Spear Point, 1 Pen and 1 File 46.00

GUN METAL HANDLES.

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File; Full Polished.

No. K3039—3 IN. GUN METAL HANDLE .....Per Dozen, $28.00

GUN METAL HANDLES

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 Nail File, Full Polished

No. K3353—3 IN. GUN METAL HANDLE .....Per Dozen, $4.00

No. K0100.

TWO BLADES, 1 Large Spear Point and 1 Pen.

Per Dozen

No. K0100—3 IN. GUN METAL HANDLE, Full Polished Blades..$17.00

No. K0115—3 IN. GUN METAL HANDLE, Half Polished Blades, Ring Lever to Open Blades.. 14.00

ALUMINUM HANDLES.

TWO BLADES, 1 Large Spear Point and 1 pen; Full Polished Nickel Plated Corkscrew on Back of Handle.

No. K3450A—3¼ IN. HAND ENGRAVED ALUMINUM HANDLE; Per Dozen..... $20.00

THREE BLADES, 1 Large Spear Point, 1 Pen and 1 File, Half Polished.

No. K3340A—3¼ IN. HAND ENGRAVED ALUMINUM HANDLE; Per Dozen $20.00

THREE BLADES, 1 Large Spear, 1 Large Sheep Foot Point and 1 Pen Half Polished.

No. K3215A—3¾ IN. HAND ENGRAVED ALUMINUM HANDLE Per Dozen $22.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs

RAZORS.

KEEN KUTTER

Highest Grade Razor Steel Blades, Uniformly Tempered, CAREFULLY GROUND AND TESTED, HONED READY FOR USE

No. K467 S

FIRST QUALITY SELECTED PEARL HANDLE Full Concaved Blade, Etched [illegible], Full Crocus Polished, Plain Tang

Nos.	K467 S	K467H
Size, Inches	[illegible]	[illegible]
Blade, point	Square	Hollow
Per dozen	$114.00	114.00

PLAIN IVORY HANDLE; Full Concaved Blade, Etched in Gold, Full Crocus Polished, First Quality Pearl Scale Tang.

Per Dozen

No. K1287 — Square Point Blade, ⅝ in. Wide..... $60.00

GENUINE TORTOISE SHELL HANDLE, Full Concaved Blade Etched in Gold, Full Crocus Polished; Plain Tang.

Nos.	K1514	K1515	K1516
Size, in.	½	⅝	¾
Blade, point	Square	Square	Square
Per Dozen	$30.00	30.00	30.00

FANCY BLACK RUBBER HANDLE, Full Concaved Blade, Etched in Gold, Full Crocus Polished; File Tang

No. K739H

Nos.	K739 S	K739H
Size, Inches	[illegible]	[illegible]
Blade, point	[illegible]	Hollow
Per Dozen	$12.00	12.00

PLAIN BLACK RUBBER HANDLE; Full Concaved Blade with KEEN KUTTER Trade Mark Etched in Gold Full Crocus Polished; Quill (or Round) Back File Tang

No. K10

Nos.	K10	K11	K12	K13
Size, In.	½	⅝	¾	½
Blade point	Square	Round	Hollow	Square
Per Dozen	$42.00	42.00	42.00	42.00

PLAIN BLACK RUBBER HANDLE, Three-quarter Concaved Blade, Etched in Gold Full Crocus Polished; First Quality Pearl Scale Tang

Per Dozen

No. K1288—Square Point Blade, ⅝ in. Wide..... $42.00

RAZORS.

KEEN KUTTER

Highest Grade Razor Steel Blades, Uniformly Tempered, CAREFULLY GROUND AND TESTED, HONED READY FOR USE.

No. K746 S

WHITE CELLULOID HANDLE Full Concaved Blade, Etched in Gold, Full Crocus Polished; File Tang

Nos.	K746 S	K746H
Size, In.	[illegible]	[illegible]
Blade, point	Square	Hollow
Per Dozen	$42.00	42.00

RIBBED BLACK RUBBER HANDLE, Full Concaved Blade Etched in Gold, Highly Polished; File Tang

Nos.	K1158½	K1158⅝
Size, In.	½	⅝
Blade, point	Square	Square
Per Dozen	$30.00	36.00

No. K88⅝S

PLAIN BLACK RUBBER HANDLE; Full Concaved Blade, Highly Polished, Gun Metal Back and Tang, Plain Tang

Nos.	K88⅝ S	K88⅝R
Size, Inches	[illegible]	[illegible]
Blade point	Square	Round
Per dozen	[illegible]	[illegible]

No. K1515R

IMITATION TORTOISE SHELL HANDLE; Full Concaved Blade, Etched in Gold, Full Crocus Polished; Plain Tang.

Nos.	K1515 S	K1515⅝S	K1515H	K1515⅝S
Size (Inches)	½	⅝	½	⅝
Blade, point	Square	Square	Round	Square
Per dozen	$33.00	33.00	33.00	33.00

No. K14

PLAIN BLACK RUBBER HANDLE, with Embossed KEEN KUTTER Trade Mark in Center; Three-quarter Concaved Blade, Highly Polished, File Tang.

Nos.	K14	K15	K16
Size, Inches	½	⅝	¾
Blade, point	Square	Square	Round
Per dozen	$27.00	27.00	27.00

KEEN KUTTER

RED MOTTLED CELLULOID HANDLE, German Silver Tips, Three-quarter Concaved Blade, [illegible] KEEN KUTTER [illegible]

Nos.	K17[illegible]S	K17⅝R	K17⅝S
Size, Inches	[illegible]	⅝	⅝
Blade, point	Square	Round	Square
Per dozen	$27.00	27.00	27.00

SAFETY RAZORS.

GILLETTE

No. 89.

Contains 1 Gillette Safety Razor, Triple Silver Plated Frame; 12 Double Edged Blades, Tempered and Glass Hardened; Each Blade will give from Ten to Thirty Shaves

Each

No. 89—GILLETTE; Genuine Black Morocco Case, Velvet Lined; Size 3¼x1⅞x2¾ in.; Weight each about ½ lb. $8.00

No. 460B—GILLETTE Nickel Plated Metal Case, Velvet Lined; Size 3⅛x1⅞x1⅝ in.; Weight each about ½ lb. $8.00

One in a Cardboard Box.

Per Package (12 Blades)

No. 90—Gillette Safety Razor Blades; New Process..$1.60

Twelve Blades in a Package, Ten Packages in a Carton; Weight per Package about ⅛ lb.

Per Package (6 Blades)

No. 91—Gillette Safety Razor Blades; New Process..$0.80

Six Blades in a Package, Twenty Packages in a Carton; Weight per Package about ⅛ lb.

Contains One Gillette Safety Razor, Complete with Twelve Double Edged Blades, One Small Stick of Colgate's Shaving Soap in Nickel Plated Case, and One Nickel Plated Collapsible Badger Hair Shaving Brush; Size Closed 3¼x3¾ in.

Per Set

No. 930—Flexible Black Morocco Leather Case, Doeskin Lined; Weight per Set about ¾ lb..$11.00

One Set in a Cardboard Box.

CONTAINS THE FOLLOWING.

1 Gillette Razor.

12 Double Edge Blades, in Metal Box.

1 Metal Case, 3¼x1¾ in., with Removable Bottom, Containing One Large Gillette Shaving Stick

1 Metal Case, 3¼x1¾ in. with Removable Bottom, Containing One Badger Hair Shaving Brush Set in Rubber, White Celluloid Ferrule and Handle.

COMBINATION SET

Velvet Lined Case, Size, Closed 3⅝ in. Long, 3 in. Wide and 1⅝ in. High

Per Set

No. 00—Black Seal Grain Leather Case TRIPLE SILVER PLATED Razor Blade Boxes Shaving Stick and Shaving Brush Cases $10.00

No. 00G—Genuine Black Morocco Case; GOLD PLATED Razor Blade Boxes Shaving Stick and Shaving Brush Cases $15.50

One Set in a Cardboard Box; Weight per Set about 1 lb

SAFETY RAZORS.

GILLETTE

CONTAINS THE FOLLOWING:

1 Triple Silver Plated Razor

12 Double Edge Blades in Triple Silver Plated Boxes.

1 Telescope Pattern Badger Hair Shaving Brush, Triple Silver Plated Case

1 Triple Silver Plated Case, 3¼x1¾ in., with Removable Bottom, Containing 1 Large Gillette Shaving Stick.

COMBINATION SET

Per Set

No. 461B—Nickel Plated Case, Velvet Lined; Size, Closed 3½ in. Long, 3½ in. Wide, 1½ in. High...$10.50

One Set in a Cardboard Box; Weight per Set about ¾ lb

POCKET EDITION.

Velvet Lined Metal Case, 4 in. Long, 2 in. Wide, ¾ in. Thick, Contains One Razor and 12 Double Edged Blades, in Metal Box

PLAIN PATTERN

No. 508—TRIPLE SILVER PLATED CASE RAZOR AND BLADE BOX ..... Each $8.00

BASKET PATTERN.

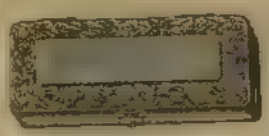
No. 501—TRIPLE SILVER PLATED CASE, RAZOR AND BLADE BOX.....Each, $8.00

SHELL PATTERN

Each

No. 502—Triple Silver Plated [illegible] Razor and Blade Box $8.00

FLOWER PATTERN



Each

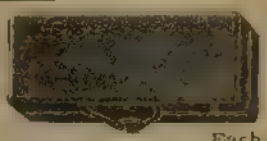
No. 503—TRIPLE SILVER PLATED CASE RAZOR AND BLADE BOX ..... $ 8.00

No. 503B—GOLD PLATED CASE, FANCY GOLD PLATED RAZOR AND BLADE BOX 10.00

Each Case in a Carton Flannel Bag, Packed in a Cardboard Container Weight Each about ¾ lb.

POCKET EDITION

Black Cowhide Leather Case; Velvet Lined, 4⅛ in Long, 2⅛ in Wide, ⅞ in. High, Contains One Razor and 12 Double Edge Blades



Each

No. 505—Triple Silver Plated Razor and Blade Box..$8.00

One in a Cardboard Box; Weight Each about ¾ lb.

SAFETY GUARDS.

Brass, Heavily Nickel Plated, Adjustable Guard, 3¾ in Long; May be Adjusted with Key, which is furnished with each Guard, to Fit any width Razor from ½ to ⅞ in.

No. 20—FOR OLD STYLE RAZORS; Weight per Dozen about 1 lb. ..... Per Dozen, $4.50

One-Twelfth Dozen in a Cardboard Box, One Dozen in a Container.

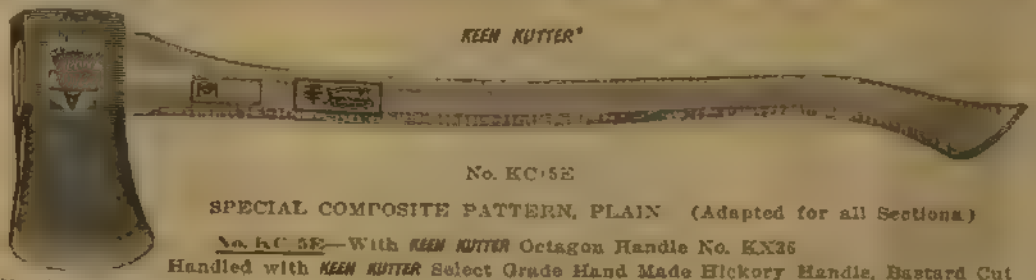
TRADE MARK
E. C. SIMMONS' *KEEN KUTTER*,
REGISTERED

AXES.

***KEEN KUTTER*° SINGLE BIT.**

Soft Steel Poll, Hardened Poll, Extra Fine Quality Crucible Steel BIT HAND HAMMERED, thin cutting, Model Pattern, HAND TEMPERED, Pat. Nut Whetted Natural Forged Finish Bird Axes Oiled, making it Rust-proof; *KEEN KUTTER* Trade Mark Design Etched in Deep.

All our Hardwood Axes have Handles FASTENED WITH OUR **SIMMONS** PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.



No. KC5E

SPECIAL COMPOSITE PATTERN, PLAIN (Adapted for all Sections)

No. KC 5E—With *KEEN KUTTER* Octagon Handle No. KX26
Handled with *KEEN KUTTER* Select Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	65	70	75	80
Per dozen	$28.50	29.00	29.50	30.00

No. KC 5 S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$27.00	27.50	28.00	28.50

No. KC 5 Q—With Cumberland Octagon Handle No. CXX.
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs	3 to 4	3 to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	70	75	80	85
Per dozen	$25.00	25.50	26.00	26.50

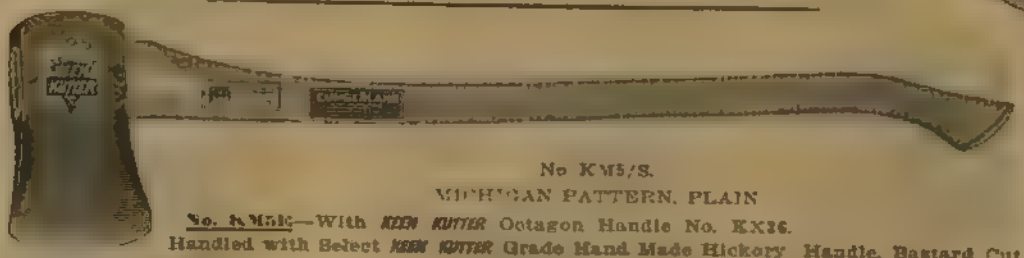
One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KC 5—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	49	54	59	64
Per dozen	$20.00	20.50	21.00	21.50

One Dozen in a Wood Box.

Made by high class skilled axe forgers, of selected material, steel tested for cohesive toughness, individual hand tempered, each tested under the most rigid inspection. The *KEEN KUTTER* Axe has about it an individuality not approximated by any other make.



No KM5/S.

MICHIGAN PATTERN, PLAIN

No. KM5E—With *KEEN KUTTER* Octagon Handle No. KX26.
Handled with Select *KEEN KUTTER* Grade Hand Made Hickory Handle, Bastard Cut

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	67	67	68	71	76
Per dozen	$28.50	28.50	29.00	29.00	29.00	29.50

No. KM5 S—With Cumberland Oval Handle No. CAA.
Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	62	66	67	68	67	76
Per dozen	$27.00	27.00	27.50	27.50	27.50	28.00

No. KM5 Q—With Cumberland Octagon Handle No. CXX
Handled with Cumberland Medium Selection Hand Shaved Hickory Handle

Weight of Head, lbs.	3¼ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	52	65	67	66	67	76
Per dozen	$25.00	25.00	25.50	25.50	25.50	26.00

One Dozen in a Crate Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped.

No. KM5—WITHOUT HANDLE.

Weight each, lbs	3½ to 3¾	3 to 4	3½ to 4½	3½ to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	46	49	51	50	51	59
Per dozen	$20.00	20.00	20.50	20.50	20.50	21.00

One Dozen in a Wood Box.

EACH AXE PUT UP IN A PAPER CARTON AND CARTON LABELED, GIVING WEIGHT OF AXE
Weight of Each Axe Stamped on the Poll.

TRADE MARK:
B. C. SIMMONS' KEEN KUTTER,
REGISTERED.

AXES.

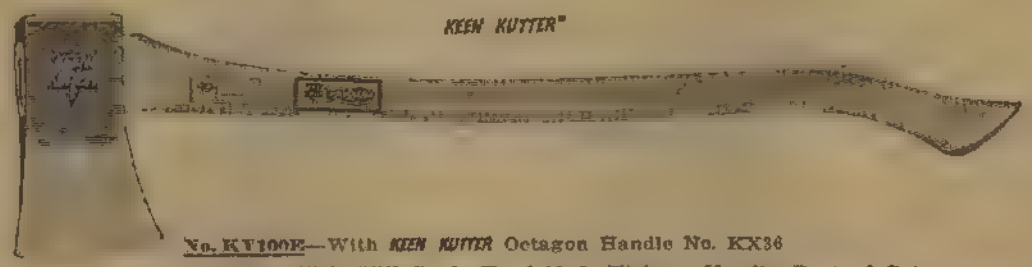
KEEN KUTTER* SINGLE BIT.

YANKEE (NARROW HEAD) PATTERN, PLAIN.

Soft Steel Body, Hardened Poll, Highest Grade Crucible Forged Steel Bit, HAND TEMPERED; GOLD BRONZED, WITH POLISHED HEAD AND BIT; KEEN KUTTER Trade Mark Design Etched in Deep.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

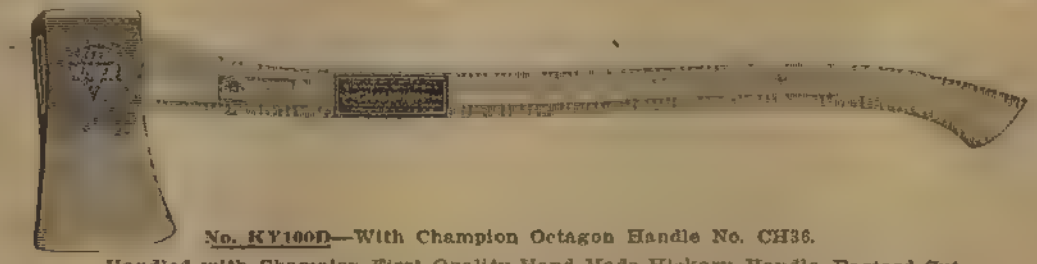
YANKEE



No. KY100E—With KEEN KUTTER Octagon Handle No. KX36

Handled with Select KEEN KUTTER Grade Hand Made Hickory Handle, Bastard Cut.

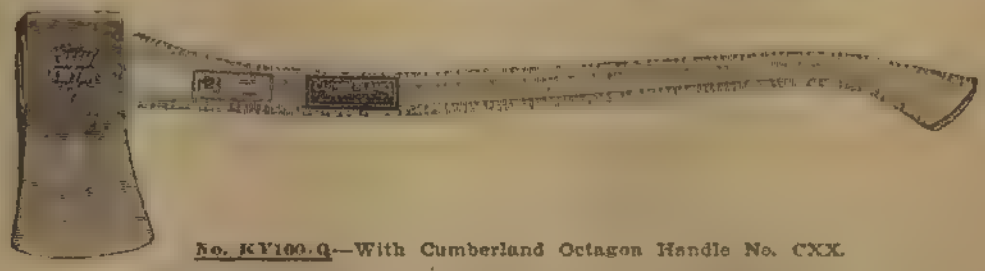
Weight of Head, lbs	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$24.50	25.00	25.50	24.50	25.00	25.00	25.50	26.00	26.00



No. KY100D—With Champion Octagon Handle No. CH36.

Handled with Champion First Quality Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about, lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$23.00	23.50	24.00	23.00	23.50	23.50	24.00	24.50	24.50



No. KY100.Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per dozen about lbs.	65	71	76	65	67	70	75	80	83
Per dozen	$21.00	21.50	22.00	21.00	21.50	21.50	22.00	23.50	23.50

One Dozen in a Crate, Heads Enclosed, Handles Projecting, Wrapped in Paper and Burlapped

No. KY100—WITHOUT HANDLE

Weight each, lbs.	3½	4	4½	3 to 4	3½ to 4	3½ to 4½	4 to 5	4½ to 5½	4½ to 6
Weight per doz. about, lbs	49	55	60	[illegible]	51	54	[illegible]	[illegible]	[illegible]
Per dozen	$16.00	16.50	17.00	16.00	16.50	16.50	17.00	17.50	17.50

One Dozen in a Wood Box.

Perfectly balanced and properly handled by men who know how to handle an Axe—it falls true to the wood-chopper's stroke—no unsightly creases in the cut. Unless you appreciate what is good and expect to take just pride in a fine tool, pass it by, for the KEEN KUTTER Axe is built for the man who knows what is good and who always wants the best.

EACH AXE PUT UP IN PAPER CARTON AND CARTON LABELED GIVING WEIGHT OF AXE.
Weight of Each Axe Stamped on the Poll.

AUTOMOBILE WAGONS.

KEYSTONE

SHEET STEEL BODY.

Body 63x21¾ in.; Finished in Red, with Varied Striping, Nicely Decorated Wood Seats, Wheels 12 and 18 in., Enameled Green, with ¾ in. Rubber Tires; Wrought Steel Gears, Enameled Black.

Per Dozen

No. 404R—Weight per dozen about 725 lbs.... ....$190.00

Body 45½x21¾ in.; Finished in Red, with Gold, Blue and Black Striping; Wheels 13 and 18 in., Green Enameled, with ¾ in. Rubber Tires; Wrought Steel Gears, Enameled Black Metal Air Chamber, Enameled Red; Black Pegamoid Leather Covered Seat.

Per Dozen

No. 403R—Weight per dozen about 550 lbs. . . $158.00

Body 44x22 in.; Painted Red, with Gold, Blue and Black Striping; Steel Axles; Wrought Steel Gearing, Black Japanned; Black Enameled Rubber Tired Wheels, 13 and 18 in.

Per Dozen

No. 402R—Weight per dozen about 500 lbs.... ...$120.00

Body 39x20½ in.; Painted Red, with Gold, Blue and Black Striping; Steel Axles; Wrought Steel Gearing, Black Japanned; Black Enameled Rubber Tired Wheels, 10 and 18 in.

Per Dozen

No. 401R—Weight per dozen about 4.. lbs . $98.00

Body 32x17 in.; Painted Red, with Gold Stripings; Steel Axles, Wrought Steel Gearing, Black Japanned; Green Enameled Rubber Tired Wheels, 8 and 14 in.

Per Dozen

No. 400R—Weight per dozen about 400 lbs.....$80.00

One-twelfth Dozen in a Wood Box.
Knocked Down

HAND CARS.

FOR PLEASURE AND EXERCISE.

SIMMONS LACLEDE*.

Hardwood Levers, Seat and Body Braces. The Castings in the make-up of the Gear are of the Best Quality Gray and Malleable Iron; The Front and Rear Axles are made of Hard Drawn Steel Wire, Perfectly Machined and Fitted. The Steel Fifth Wheels are large and Very Strong and are held together by a ⅝ in. Bolt with Two Nuts; The Seat Board is fitted with Two Wood Braces on Bottom to which the Gear is attached which prevents the Screws and Bolts coming through to the Top; The Wheels are fitted with Heavy Spokes and Hubs Maroon Enameled, with ¾ in. Rubber Tires; BODY HIGHLY ENAMELED IN BRIGHT RED COLOR WITH FANCY STRIPINGS.

Per Dozen

No. 10—SIMMONS LACLEDE*: Length over all 36 in.; Width 18 in., Height over all 13 in.; Front Wheels 8 in. in Diameter; Rear Wheels 12 in. in Diameter.$107.00

One-twelfth Dozen in a Heavy Cardboard Box.
Knocked Down.

SIMMONS LACLEDE*.

Constructed of Special Carbon Steel, Very Light and Durable; Wood is used only in Seat Board; Equipped with ½ in. Black Rubber Tires; Black Enameled Wood Grips with Brass Ferrules; Seat Board Finished in Bright Vermilion, with Elaborate Striping and Decorations; Frame, Running Gear and Lever Black Enamel Finish; Tinned Wheels.

Per Dozen

No. 8—SIMMONS LACLEDE*: Length over all 36 in., Width over all 20½ in., Height over all 32 in.; Front Wheels 8 in. in Diameter, Rear Wheels 12 in. in Diameter; Seat Board 9x16½ in. $102.00

Weight per Dozen about 312 lbs.

No. 8—SIMMONS LACLEDE Jr.*: Length over all 28 in., Width over all 17 in., Height over all 13 in.; Front Wheels 7 in. in Diameter, Rear Wheels 9 in. in Diameter, Seat Board 7x13 in. $75.00

Weight per Dozen about 204 lbs.

One-twelfth Dozen in a Water- and Dust-proof Carton.

FLYING DUTCHMAN

No. 310 — "FLYING DUTCHMAN"; WOOD PARTS FINISHED ENTIRELY IN RED; Built for Two Riders, Two Seats and Two Levers, Suitable for Children from 5 to 15 years old. Length 57 in.; Width 20 in.; Height 23 in.. Weight per dozen about 540 lbs.....Per Dozen, $156.00

IRISH MAIL

Made entirely of Wood Steel and Malleable Iron; Wood Parts are made of Selected Oak. Running Gear is Finished in Jet Black; Wheels have Extra Heavy Spokes and Hubs and are Rubber Tired. Front Wheels 8 in. in Diameter, with Twelve Spokes; The Rear Wheels 12 in. in Diameter, with Sixteen Spokes, Nicely Tinned.

No. 300—"IRISH MAIL"; The Reaches or Long Parallel Bars and Handle are Painted with Three Coats of Red Paint; Seat is Painted with Three Coats of Green Paint. The Whole Machine is Neatly Stenciled and Transferred with Attractive Designs. This Machine will easily Sustain a Weight of 400 lbs., and is Suitable for Children from 3 to 15 years old. Length 41 in.; Width 20 in.; Height 25 in., Weight per dozen about 396 lbs ..Per Dozen $168.00

One-twelfth Dozen in a Crate

SIDEWALK SULKIES.

GEMCO.

Axle ⅝ in. Steel, 18 in. Wide; 9¾ in Steel Wheels, with ⅝ in Rubber Tires, held on the Axles by Spring Cotters; Wood Seat 14 in. Wide, 10 in. Deep, and Reinforced on the Bottom with Wood Slats to prevent Cracking, and Supported by ⅝ in. Heavy Steel Band, which forms the Support for the Adjustable Foot Rest in Front and a Brace in the Rear to Prevent Tipping; Narrow Steel Arm Rests and Wood Back Support, 7 in. High; Square Wood Handle, pulls direct from the Axle and Bolted to the Seat, extends 40 in. in Front of the Seat; All Parts Bolted Together; Iron Parts Black Enameled; Red Seat; Natural Finish Handle.

NOT REVERSIBLE

Per Dozen

No. 100—Width of Back Support 1⅝ in.; Weight each about 7 lbs...$22.00

REVERSIBLE BACK

Per Dozen

No. 105—Width of Back 2¾ in.; Weight ea. about 10 lbs. $30.00

One-half Dozen in a Case, Knocked Down.

GEMCO.

REVERSIBLE BACK.

Axle ⅝ in. Steel, 18 in. Wide; 10 in. Steel Wheels, with ⅝ in Rubber Tires held on the Axle by Spring Cotters, Covered by Nickel Caps; Equipped with Crescent Shaped Steel Mud Guards or Fenders, Wood Seat Frame Tenoned and Supported in the Center by Fibroid and Covered with a Heavy Tufted Pantasote Cushion; Width of Seat 14 in., Depth 10 in., Supported by ⅝ in. Heavy Steel Band that forms the Support for the Adjustable Foot Rest in Front and a Brace in the Rear to prevent tipping, Steel Arm Rests with 1 in. Wood Reinforcement, Wood Back Rest with Heavy Tufted Pantasote Cushion; Height from Top of Seat 6½ or 7¾ in. Wide, Square Wood Handle Extends 40 in. in Front of Seat. All Parts Bolted Together. All Steel Parts Black Enameled; Red Seat; Natural Finish Handle.

REVERSIBLE BACK

Handle Pulls Direct from the Axle and Bolted to Seat.

Per Dozen

No. 110—Weight each about 11 lbs.....$42.00

REVERSIBLE BACK.

The Handle is Double Braced or Bottom of Seat. Seat is equipped with Two Elliptic Springs with Triangular Steel Bumpers in the Center and affords Easy Riding and Prevents Severe Shocks.

Per Dozen

No. 115—Weight each about 11 lbs....$51.00

One-half Dozen in a Box, Knocked Down.

SIDEWALK SULKIES.

GEMCO.

COLLAPSIBLE, WITH REVERSIBLE BACK.

Wheels 10 in. in Diameter, with ½ in. Rubber Tires, fastened to Wheel Hanger with a Bolt and Nut, and equipped with Crescent Shaped Steel Mud Guards or Fenders; Wood Seat Frame, Tenoned and Supported in the Center by Fibroid and Covered with a Heavy, Tufted Pantasote Cushion; Width of Seat 12¾ in., Depth 10 in., Supported by ⅝ in. Heavy Steel Band, which forms the Support for the Adjustable Foot Rest in Front, and a Brace in the Rear to Prevent Tipping, Steel Arm Rests and Wood Back Rest with a Heavy, Tufted Pantasote Cushion; Height from Top of Seat 8½ in., 6¾ in. Wide; Square Wood Handle, with D Handle Grip, extends 34 in. in Front of Seat. All Parts Bolted Together; Entire Cart Black Enamel Finish.

Seat has Two Half Elliptic Springs; When the Cart is Open for Use the Wheels assume their position by Gravity, but are assisted to their place by a Heavy Tempered Wire Coil Spring that comes in contact with the Wheel Brace

COLLAPSABLE WITH REVERSIBLE BACK.

Per Dozen

No. 120—Weight each about 12 lbs.....$64.00

One in a Crate

Axles ⅝ in. Square, Steel, 30 in. Wide; Wheels 10 in. in Diameter, with ½ in. Rubber Tires; Heavy Spokes and Center of Wheels are made of Steel, and Fastened with Square Nuts; Seats made of Hardwood 15 in. Wide, 11¼ in. Deep, and Securely Braced on the Bottom by Heavy ⅝ in. Steel Band, which connects with the Axles and extends to the Rear of the Seat to prevent the Cart from tipping back; The Top of the Seat is fitted with a Curved Body; the Lower Half in Back is of Solid Sheet Steel 4½ in. High, and an Extra Adjustable Support extending 2½ in. Higher which is fastened with Two Wing Nuts, allowing for Easy Adjustment to a Height of 4 in., When extended in full it measures 8½ in. from the Wood Seat to the Extreme Top of the Rest, supplied with Leather Hand Strap. All Metal Parts Black Enamel Finish, Natural Finish Round Hardwood Handles, fitted in an Iron Socket, extends 42 in. in Front of the Seat and Equipped with a Steel Pin on a Chain that passes through the Iron Socket and Handles so that Handles can be easily removed.

JAUNTING.

Foot Rest made of Hardwood; Seats supported by Heavy Steel Iron Band, 1 in. Wide.

Per Dozen

No. 125—Weight each about 42 lbs. $54.00

CHAISE.

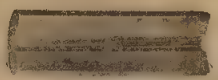
Tubular Steel Extensions from the Seat to Support the Adjustable Steel Foot Rest

Per Dozen

No. 130—Weight each about 36 lbs.....$42.00

Two in a Crate.

AIR RIFLES



Cut Shows Section of Barrel Rifled and Bored

B. S. A.

This Wonderful Rifle Compares Favorably with Any High Grade .22 Caliber on the Market; .22 Bore, Makes Little Noise, No Smoke and No Fire; No Cleaning Troubles, Has a Velocity of 600 Feet a Second.

No Breech Joint Through which Compressed Air can Escape. It has an Accurately Fitting Air Tight Breech Plug which Forms the Pellet Chamber. The Patent Separate Lever is Used Instead of the Barrel as a Spring Compressing Lever; the Barrel is Rifled with the Greatest Engineering Skill especially to deal with the Pellets Discharged from this Class of Arm; Improved Forms of Back and Front Sights; All Parts are Interchangeable.

This Rifle is Very Effective for Rabbit Shooting and Small Game in General, being Very Accurate and Powerful up to 75 or 100 Yards; also Suitable for Use in the House, Club, or for Target Practice.

The Separate Cocking Lever Lies Parallel with the Barrel That Does Not Affect the Accuracy of the Barrel as does the Old Break-Down System.

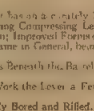
To Oil the Rifle, Squirt a little Oil into the Loading Plug, Work the Lever a Few Times and then Pull the Trigger. This Shoots the Oil into the Barrel, Thoroughly Lubricating it.

Barrel.—Made of the Very Best Steel, Blued Finish, Carefully Bored and Rifled.

Stock.—Black Walnut, Varnished, Steel Butt Plate.

	Each
No. 2—Standard Model. .22 Gauge, Shoots B. S. A. Pellets. Length of Barrel 21½ inches, Length of Stock 14 inches, Length Over All 41¾ inches. Weight 8 lbs.	$38 60
No. 4—Junior or Boy's Model; .177 Gauge, Shoots Adder Pellets. Length of Barrel 12¾ inches; Length of Stock 14½ inches; Length Over All 24 inches. Weight 6 lbs.	37 40

SPECIAL SIGHTS



A special target sight is made for this weapon which is set in the wood just in front of the pistol grip. This makes extremely careful aiming possible.

	Each
No. 21A Special Target Aperture Deep Sights for Nos. 2 and 4 Rifles.	$8 00

Adder

B. S. A.

The Pellets Used are of the Most Accurate Design for Smooth or Accurate Use. They are Waisted at the Middle to Reduce Weight and Friction, also that the Outside Edges will take the Rifling Better and Make them More Accurate.

	Per 1000
B. S. A.—For No. 2 Standard Model Rifle; Five Hundred Pellets in a Box, Weight per Box 1½ lbs.	$3 30
Adder—For No. 4 Junior or Boy's Model Rifle; One Thousand Pellets in a Box; Weight per Box 1¾ lbs.	1.90

BOYS' WAGONS.

KING KOASTER.

Extra Heavy Broad Finest Quality Steel Gearing; Heavy Steel Tongue Attachment Riveted to the Front Bolster, with Brace having 3¼ in. Spread where it joins the Bolster; This Front Bolster is Constructed in such a manner that the Strain is sustained by the Underhanging Brackets and Rear Brace instead of the Fifth Wheel. This adds greatly to the Durability and Sustaining Power of the Wagon. There is also a Heavy Steel Brace extending from the Extreme End of this Attachment to the Bottom of the Bolster Brace which distributes the Draw to Three Direct Points.

The Bolster is made of One Piece Best Quality Steel, Reinforced by Corrugations; The Axle, at its Extreme Ends, passes through this Bolster, thus bringing a Portion of the Load on the Axle as near the Wheels as possible. The Bolster is Braced at the Center by a Brace with a Spread of 3½ in. through which the Axle passes at Two Places. There is another Brace Riveted to the Bottom of the Bolster Brace and Running to the Bottom of the Body and Strengthened by a Brace fastened by the King Bolt. This Front Brace is Reinforced by Corrugation and is fastened to the Bottom with a Spread of 7 in.

The Fifth Wheel is made of Two Pieces of Heavy Steel, with a Large Bearing Surface, One Securely Riveted to the Bolster, the other to the Front Brace.

The Rear Braces are placed at the Outer Edge of the Bottom, thus bringing the Load on the Axles as near as possible to the Wheels.

There is also a Center Brace extending from the Center of the Rear Axle to the Bottom of the Body.

All Gear Braces, Arch and Rear Braces are made of Extra Wide Heavy Stock, Reinforced by Corrugations which Renders them Impervious to Strain and Adds Greatly to the Durability of the Wagon.

Extra High Heavy Sheet Steel Body with Corrugations at Top and Bottom and with a Wire running around the Top.

Bottom Board is made of ⅝ in. Stock with Four Cleats on Bottom on Five Larger Sizes and ½ in. Stock without Cleats on Smaller Sizes.

Tongue, Hardwood with Wound Leather Loop Handle. Will Stand Upright in any Position. The Irons and Handle are Both Fastened Securely to the Tongue with Two Bolts and Nuts; Gear and Tongue Attachment Extends far out from Axle to Enable Boy to Guide while Seated in Wagon.

Large Brass Finished Artillery Pattern Nuts on Axles, Copper Finished Bolt Heads and Washers on Inside of Bottom.

Extra Heavy Wheels with Barrel Hub, Extra Wide Oval Solid Steel Rims and Heavy Steel Spokes.

FINISHED IN THREE COLOR COMBINATIONS, as Follows:

GRAY INSIDE, BLUE OUTSIDE, GEARS BLACK, WHEELS BLACK, TONGUE GREEN.

RED INSIDE, GREEN OUTSIDE, GEARS GREEN WHEELS RED, TONGUE GREEN

GREEN INSIDE, RED OUTSIDE, GEARS GREEN, WHEELS RED, TONGUE GREEN

Nos. KK04, KK03 and KK02 are Toy Sizes and are therefore without Cleats; without Bolster in Front Gear and without Corrugation in the Braces.

Nos.	KK04	KK03	KK02
Size of Body, inches	9x18x3	10x20x3¾	11x22x3½
Diameter of Wheels, inches	8 and 9	7 and 10	8 and 11
Weight per dozen about, lbs.	80	96	120
Per dozen	$18.50	20.00	[illegible]

Nos.	KK0	KK1	KK2
Size of Body, inches	12x24x4	13x26x4¾	14x28x4¾
Diameter of Wheels, in.	8 and 12	10 and 13	11 and 14
Weight per doz. about, lbs.	180	216	240
Per dozen	$26.50	31.00	[illegible]

Nos.	KK3	KK4
Size of Body, inches	16x30x5	16x32x5¼
Diameter of Wheels, inches	12 and 15	13 and 16
Weight per dozen about, lbs	260	380
[illegible]	$36.00	41 00

One-quarter Dozen Assorted Colors in a Paper Carton.

Assuring Absolute Protection to the Wagons.

WE DO NOT BREAK CARTONS

BOYS' WAGONS.

"AMERICAN EXPRESS" ALL STEEL.

STEEL GEARING, STEEL TONGUE Attachments; Large Double Circle Plates, Well Riveted, form the Fifth Wheel; Sheet Steel Body With Corrugation at Top and Bottom, Finished with a High Grade Varnish; COLORS INSIDE LIGHT BLUE, OUTSIDE BRIGHT RED; STEEL GEARING IS GREEN ENAMELED; Wheels made of Solid Steel Rims, with Heavy Spokes, Japanned, White Pine Bottoms, Plain Maple Tongue

Nos.	NA01	NA03	NA02
Size of Body, inches	[illegible]	11x20	11x22
Diameter of Wheels, inches	6 and 9	7 and 10	8 and 11
Weight per dozen about, lbs	72	90	108
Per dozen	$11.28	12.60	13.96

Nos.	NA0	NA1	NA2
Size of Body, inches	12x24	13x26	14x28
Diameter of Wheels, inches	8 and 12	10 and 13	11 and 14
Weight per dozen about, lbs.	160	204	240
Per dozen	$17.10	20.26	22.50

Nos.	NA3	NA4	NA5
Size of Body, inches	15x30	16x32	18x36
Diameter of Wheels, in.	12 and 15	13 and 16	14 and 18
Weight per doz. about, lbs.	240	270	360
Per dozen	$24.76	28.80	43.20

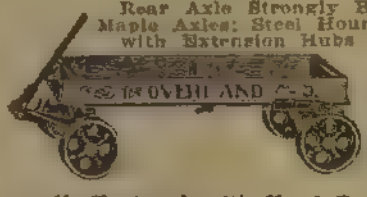
Nos. NA01 to NA4, One-sixth Dozen; No. NA5, One-twelfth Dozen in a Paper Carton

Extra Seats, for Nos. NA0, NA1, NA2 and NA3 (In ordering, specify number of Wagon wanted for); Per Dozen $6.50

Extra Seats can be furnished for above Wagons only

Extra Shafts, for Nos. NA0, NA1, NA2, NA3 and NA4; Per Dozen Pairs $17.00

OVERLAND COASTER



Rear Axle Strongly Braced; 1¼x2 in. Rock Maple Axles; Steel Hounds, Cast Iron Wheels, with Extension Hubs and ⅝ in. Strap Tire; White Ash Buckboard Bottom, with Removable Skeleton Type Express Box; Round Maple Handle; Has Reliable Steering Mechanism which operates equally well with Express Box on or off; Equipped with Hand Brake; NATURAL WOOD FINISH, VARNISHED, WITH RED TRIMMINGS, WHEELS BLUE ENAMELED

	Per Dozen
No. 0A—HARDWOOD GEAR, Size of Bottom 11x30 in.; Diameter of Wheels 8 in.; Weight per dozen about 120 lbs.	$30 00 32.40

OVERLAND COASTER

STEEL GEAR, Channel Steel Arch Construction, Front and Rear Axles Strongly Braced; ⅝ in. Round Steel Axles; Malleable Iron Hounds; Strong Malleable Fifth Wheel, Heavy Iron Roller Bearing Wheels with Heavy Iron Hubs; Malleable Iron Felloes and Tires, Round Hardwood Spokes; White Ash Buckboard Bottom, with Removable Skeleton Type Express Box, Round Hard Maple Handle; Has Perfect Steering Mechanism, which operates equally well with Express Box on or off; Can be used as a Boy's Wagon, as a Coaster Wagon or as a Coaster Bob.

Nos 1A, 2A, 3A and 5A Equipped with Hand Brake.

No. 4A Equipped with Combination Foot and Hand Brake. Natural Wood Finish, Varnished, with Red Trimmings.

Nos.	1A	2A	3A	4A	5A
Size Bottom, in.	14¼x38	14¼x36	16¼x40	16¼x40	18¼x44
Diam. Wheels, in.	8	11	11	11	11
Wgt. doz. abt., lbs.	336	408	468	516	642
Per dozen	$50.00	72.00	80.00	86.00	96 00
	54.50	77.80	86.40	92.90	02.96

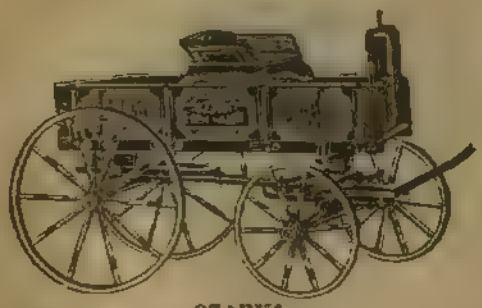
One-sixth Dozen in a Crate, Knocked Down.

Shafts for Overland Coaster Wagons; Hard Maple, Varnished, with Red Trimmings; Weight each about 5 lbs. ..... Each, $3.50

Will fit any Size Overland Coaster Wagon.

Packed Loose.

BOYS' WAGONS.



OZARK®.

Bed 3¼ in. Deep, 18 in. Wide, 36 in. Long; Dash Board 11¾ in. High; Sides, Dash Board and End Gates ⅝ in. Thick Bottom ⅝ in. Thick; Extra Heavy Seat, rises 14 in. above Bottom of Bed; Sides and End Gates or Entire Body Removable; Gears and Wheels Extra Heavy; Standards from Bed, Extra Long Coupling Pole permits of Adjusting Length of Wagon; Curved Hardwood Tongue 3x4 in., with Cross Pin, Tongue may be removed and Shafts for Dog or Goat, as listed below, may be attached. Rear Wheels 21 in., Front Wheels 14 in. in Diameter, Wheels are Wood with Metal Bound Hub; Steel Tires on Front and Rear Wheels ¾ in. Wide; GEARS PAINTED RED, STRIPED WITH BLACK; BODY AND SEAT GREEN, STRIPED WITH YELLOW; Wagon is modeled after regular Farm Wagon and is in every respect Good and Substantial

Per Dozen

No. 355—OZARK® FARM WAGON; Weight per dozen about 600 lbs. $113.50

One-twelfth Dozen in a Crate, Knocked Down.

SHAFTS—For No. 355 Farm Wagon; Painted Red; Weight per dozen about 75 lbs. 15.00

One-twelfth Dozen in a Crate.

Per Dozen Sets

GOAT HARNESS—For No. 355 Farm Wagon; Made of Russet Leather $40.00

One-twelfth Dozen Sets in a Cardboard Box

BOYS' WAGONS.

SIMMONS LACLEDE® COASTER.

Size of Bottom 16x36 in.; Height of Box 4 in. Inside Measurement of Box 31¼x13¾ in.; Diameter of Wheels 10 in., Hardwood Gear, Well Braced from Bottom of Box. Bottom strengthened by Two Extra Ash Cross Pieces Axles ⅝ in. Round Steel; Body, Bolsters, Bottom and Tongue are made of Selected Ash, Finished Natural Color, Varnished; Top Rail of Box and Edge of Bottom Finished in Red. Wheels have Cast Iron Hubs, Heavy Ash Spokes and Felloes, and Steel Rims set by Heavy Hydraulic Pressure; Felloes and Hubs Finished in Black, Spokes in Red; Brass Plated Artillery Pattern Axle Nuts; Leather Wood Grip Handle 24 in. Long. Wrought Steel Extension Tongue; Rear Wheel Hand Brake.

Body can Easily be Removed by pressing Spring in Rear End of Wagon. The Simplest and Most Effective Method yet devised.

Per Dozen

No. 40—SIMMONS LACLEDE® COASTER WAGON; Weight per crate about 55 lbs. $90.00

One-sixth Dozen in a Crate

We want to handle your MAIL ORDERS in just the way you want them handled.
We give you the same low prices on MAIL ORDERS as made by our salesmen.

EXTRA PARTS FOR BOYS' WAGONS.

FOR KING KOASTER BOYS' WAGONS.

For Wagons Nos		KK01	KK03	KK02	KK0	KK1	KK2	KK3	KK4
Front Wheel	Each	$0.40	[illegible]	$0.34	$0.36	$0.39	$0.42	$0.45	$0.48
Rear Wheel	Each	.34	[illegible]	.40	.42	.48	.48	.54	.57
Rear Axle	Each	.12	.16	.22	.22	.24	.24	.24	.40
Lower Front, Complete with Axle	Each	.22	[illegible]	.28	.30	.30	.30	.42	.48
Rear Standard	Each	.06	[illegible]	.06	.06	.12	.12	.15	.15
Prong and Prong Brace	Each	.12	.12	.16	.16	.18	.21	.24	.30
Rear Center Brace	Each	.06	.06	.06	.08	.08	.08	.08	.08
Body	Each	.70	.76	.88	1.00	1.12	1.24	1.36	1.75
Handle Irons	Per Pair	.28	[illegible]	.28	.27	.27	.27	.27	.27
Handle Loop	Each	.06	[illegible]	.06	.06	.06	.06	.06	.06
Handle	Each	.18	.18	.18	.20	.20	.20	.20	.20
Artillery Pattern Nuts	Each	.07	.07	.07	.07	.07	.07	.07	.07
Coppered Bolts	Per Dozen	.30	[illegible]	.30	.30	.30	.30	.30	.30
Coppered Nuts	Per Dozen	.30	[illegible]	.30	.30	.30	.30	.30	.30
Coppered Pin Heads	Per Dozen	.30	.30	.30	.30	.30	.30	.30	.30

Packed Loose

FOR AMERICAN EXPRESS BOYS' WAGONS.

For Wagons Nos		NA01	NA03	NA02	NA0	NA1	NA2	NA3	NA4	NA5
Front Wheel	Each	$0.21	$0.24	$0.27	$0.30	$0.33	$0.36	$0.39	[illegible]	$0.45
Rear Wheel	Each	.30	[illegible]	.36	.39	.42	.45	.48	.54	.60
Front or Rear Axle with Nuts	Each	.15	.18	.18	.21	.21	.24	.24	.40	.51
Front Axle, Bolster and Three Prong Piece	Each	.33	[illegible]	.42	.60	60	.75	.75	1.05	1.20
Rear Axle complete with Braces	Each	.24	.24	.27	.36	.36	.45	.45	.66	.81
Three Prong Piece	Each	.09	[illegible]	.12	.12	.15	.18	.21	.33	.45
Bolster	Each	.12	.15	.15	.18	.21	.24	.24	.33	.45
Rear Brace	Each	.09	.12	.12	.30	.36	.36	.36	.45	.60
Body	Each	.60	.66	.78	.90	1.02	1.14	1.26	1.64	1.95
Tongue Clips	Per Pair	.25	.25	.25	.25	.25	.25	.25	.25	.25
Bolts	Per Dozen	.25	.25	.25	.25	.25	.25	.25	.25	.25
Nuts	Per Dozen	.25	.25	.25	.25	.25	.25	.25	.25	.25
Tongue without Attachments	[illegible]	.09	.09	.09	.15	.15	.15	.15	.15	.15
Tongue with Irons and Bolts	Each	.18	.18	.18	.24	.24	.24	.24	.24	.24
Axle Nuts	Each	.06	.06	.06	.06	.06	.06	.06	.06	.06

Packed Loose.

Rd. MELHUISH, Ltd., Fetter Lane, Holborn Circus, London, E.C.

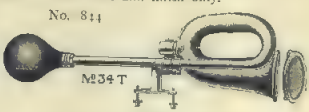
Lucas "King of the Road" Motor Horns.

Best make and finish only.

No. 843.

Brass or nickel-plated, **32 6**

No. 844



Brass or nickel-plated, **26 -**

No. 845.

With clip $\frac{5}{8}$ to $1\frac{1}{4}$ in. Price **24/-**

No. 846.

Nickel-plated. Price **1/6**

The Gem Padlock.

No. 847

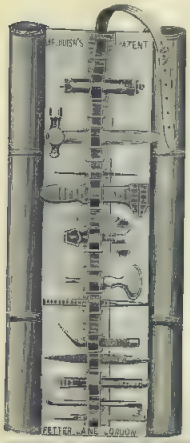
For Cycles.

Nickel-plated

Price **1/6** complete.

Motor Tool Rolls.

No. 848.



This pattern is fitted with Melhuish's Patent Metal Clips. The Roll is made of very best tanned leather, and will be found extremely easy for folding up. It can be supplied with or without the tools; space is left for additions if required.

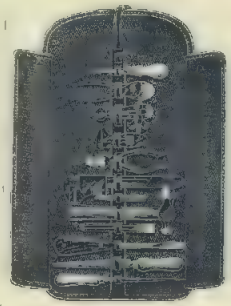
Tools supplied as illustrated.

Price complete, **21,3**

Empty Roll, **9/6**

NOTE.—The tools as shown are generally used, but we will supply any tools to customer's own requirements.

No. 849.



Small Set, made in best strong canvas and leather bound, with 12 tools.

Price complete ... **13/6**

,, empty Roll ... **3/6**

Cycle Roll.

No. 850.

Made in best strong canvas and leather bound, with 10 tools.

Price complete ... **10/6**

,, empty Roll .. **8/-**

Machinists' Tool Cases.

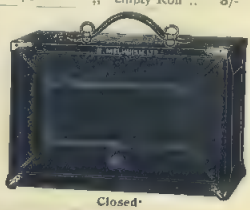
No. 851.

Open.

Strongly made, covered with a waterproof imitation of leather, and very handsome. Each has 5 drawers, brass lock with 2 flat keys, leather handle, and metal corners.

Size A. 16 in. long × 9 in. wide × $10\frac{5}{8}$ in. high. Price **£1 : 17 : 6**

Size B. $20\frac{1}{2}$ in. long × $9\frac{5}{8}$ in. wide × $11\frac{3}{8}$ in. high. Price **£2 : 1 : 0**

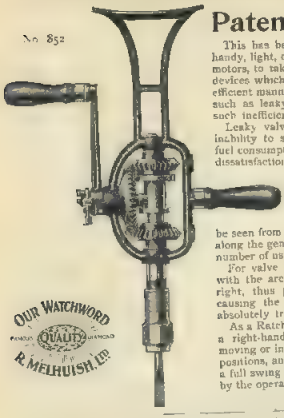


Closed.

Contractors to the Home, Indian, and Colonial Governments.

Patent Valve Grinders.

No 852



This has been designed to meet the demand for a handy, light, compact and durable Tool for service on motors, to take the place of a number of clumsy, bulky devices which do not do the work in an up-to-date and efficient manner. A number of common motor troubles, such as leaky valves and loose parts, are caused by such inefficient tools.

Leaky valves on a motor mean poor compression, inability to start the engine "on the spark," greater fuel consumption, loss of power, efficiency, and general dissatisfaction with the car's action. Car owners, chauffeurs and garage men will find that the Grinder will pay for itself in a very short space of time, by minimising the common motor troubles mentioned above.

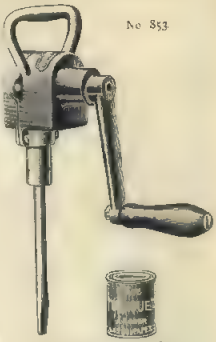
This handy combination Tool, as will be seen from the accompanying illustration, is designed along the general lines of a breast drill, but it has a great number of uses, as will be seen from the following.

For valve grinding the action is an oscillating one, with the arc of oscillation gradually advancing to the right, thus preventing the cutting of grooves, and causing the valve seat to be ground smoothly and absolutely true.

As a Ratchet Drill this Tool can be used, with either a right-hand or left-hand ratchet movement, for removing or inserting screws in awkward or inaccessable positions, and for drilling and tapping in places where a full swing of the operating crank cannot be obtained by the operator.

Price . 36 6

No 853



Unique Grinder.

This gives an automatic alternative movement.

Price complete 30/-

Valve Reseater.

Fig 1 shows the Tool enlarging the valve chamber to make room for a larger valve. Fig 2 shows a valve seat which is worn too deep being faced down. Fig. 3 shows the operation of re-boring a valve seating.

This Tool provides a cheap and simple means of renovating the valve seatings of motor engines. As will be seen in the illustration, a Stem which fits the valve guide is first fixed in place, and on this the Tool is revolved, the feed being regulated by the Nut at the upper end of the Stem working on a fine thread. The Blades are adjustable to suit the various sizes of seatings, and as the adjustment is effected by means of the two Lock screws projecting through the Handle when the Tool is in its working position, the walls of the valve chambers can be recessed larger to make room for larger valves in cases where the seatings had been entirely worn out.

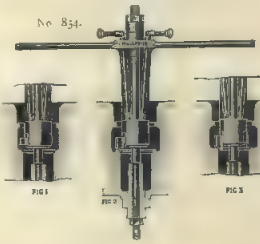
The Motor Set will deal with all sizes of valves from 1⅛ in. to 2¼ in. outside diameter: and consists of the Arbor, 6 Spindles of various sizes which fit the great majority of valve guides, 6 Cutters, and a Cutter Grinding Gauge.

Price of the **Motor Set,** in wood Box 45/-

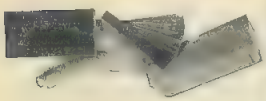
The Motor Cycle Set will deal with all sizes of valves from 1¼ in. to 1⅝ in., and contains the same number of Cutters and Spindles as the Motor Set.

Price of the **Motor Cycle Set,** in wood Box 40

No 854.



Valve Grinding Powders and Paste.



No 855

Outfit No. 1, containing two collapsible Tubes of coarse and fine ground, Cloth Strips, and Booklet, packed in neat cardboard Box.

Price 2 9 each

No 856

Special Powder in small tins, as illustrated Price 3 each

No 857

Outfit No. 2, containing two half-pound Tins of coarse and fine grain, Cloth Strips, and Booklet, in neat cardboard Box. Price 2/9 each.

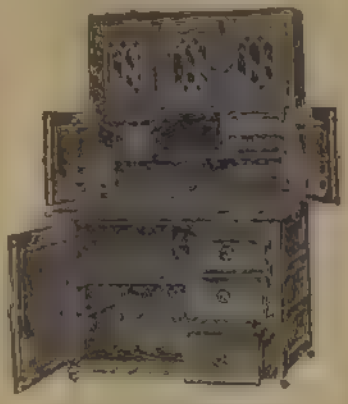
For other Grains and Powders, see other pages

Bronze Medal, 1884. Gold Medal, 1890.

‡KITCHEN CABINETS.

The Lumber is all Kiln-Dried, Selected Stock, Carefully Machined, Nicely Sanded, Waxed and Finished; The Finish is Guaranteed to withstand the Steam, Heat and Moisture to which a piece of Furniture of this kind is exposed; The Doors, Drawers, Shelves and Bins are all Fitted and Adjusted, and each piece Carefully Inspected before being crated for shipment; The Joints are Mortised, Tongued, Grooved, Nailed, Screwed or Glued, depending on their location and the strain to which they are subjected; A High Grade of Glue is used that will not permit any of the Joints to open up; The Drawers are Plowed and the Bottom slips in; The Hardware is Antique Copper Finish; Push Buttons are used on the Large Doors; Fitted with Lignum-Vitae Casters

OAK, GOLDEN OAK FINISH.



Full Extension Nickeled Top on Base; Bottom Drawer in Base is Portable Metal Bread and Cake Box divided in Two Compartments, Fitted with Hinged Metal Covers; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom and Pan Rack in Cupboard in the Base; Interior of Top and Inside of Doors Varnished; Glass Tea and Coffee Jars and Five Glass Spice Jars, with Aluminum Screw Caps; Sugar Scoop and Rolling Pin in Top; Sifter Flour Bin in the Top, with Full Glass Front and Heavy Metal Hopper with Sifter and Cap Attached; Full Art Glass Panels in Top Doors.

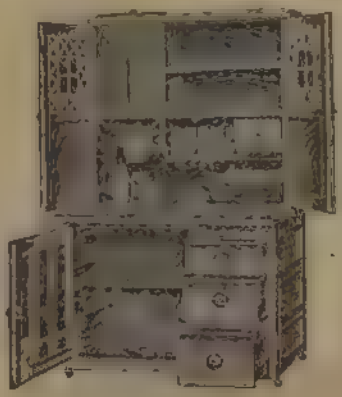
SIZE OF BASE COMPARTMENTS

1 Drawer 5x17x20 in.
1 Drawer 6x12x20 in
1 Bread Box 8x11x20 in.
1 Cupboard 23x24x26 in.

SIZE OF TOP COMPARTMENTS

1 Cupboard 37x18x11 in.
1 Cupboard 24x17x11 in
1 Flour Bin 18x13x18 in.
1 Bin 11x10x8 in.

	Height over all, inches	Width over all, inches	Height of Base, inches	Depth of Base, inches	Depth of Top, inches	Weight each about, lbs	Each.
‡No 2110	66	40	36½	27	12	300	$40.00



Full Extension Nickeled Top on Base; Bottom Drawer in Base is Portable Metal Bread and Cake Box divided in Two Compartments, Fitted with Hinged Metal Covers; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom and Pan Rack in Cupboard in the Base; Interior of Top and Inside of Doors Varnished; Glass Tea and Coffee Jars and Five Glass Spice Jars, with Aluminum Screw Caps; Sugar Scoop and Rolling Pin in Top; Sifter Flour Bin in the Top, with Full Glass Front and Heavy Metal Hopper with Sifter and Cap Attached; Full Art Glass Panels in Top Doors

SIZE OF BASE COMPARTMENTS

1 Drawer 5x12x20 in
1 Drawer 6x12x20 in
1 Bread Box 8x11x20 in
1 Cupboard 23x24x26 in.

SIZE OF TOP COMPARTMENTS.

1 Cupboard 37x36x11 in
1 Bin 9x15x8 in.
1 Flour Bin 18x13x18 in

	Height over all, inches	Width over all, inches	Height of Base, inches	Depth of Base, inches	Depth of Top, inches	Weight about, lbs	Each.
‡No 2318	67	40	36½	27	12	300	$40.00

Wrapped in Paper and Crated

‡KITCHEN CABINETS.

The Lumber is all Kiln-Dried, Selected Stock, Carefully Machined, Nicely Sanded, Waxed and Finished. The Finish is Guaranteed to withstand the Steam, Heat and Moisture to which a piece of Furniture of this kind is exposed; The Doors, Drawers, Shelves and Bins are all Fitted and Adjusted, and each piece Carefully Inspected before being crated for shipment; The Joints are Mortised, Tongued, Grooved, Nailed, Screwed or Glued, depending on their location and the strain to which they are subjected; A High Grade of Glue is used that will not permit any of the Joints to open up; The Drawers are Plowed and the Bottom slips in; The Hardware is Antique Copper Finish; Push Buttons are used on the Large Doors; Fitted with Lignum-Vitae Casters.

Nickeled Top on Case Nickeled covered Drop Lid Two Compartments in Sliding Flour Bin in Base; Bottom Drawer in Base is Portable Metal Bread and Cake Box Divided in Two Compartments, Fitted with Hinged Metal Covers; Five Glass Spice Jars, with Aluminum Screw Caps; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom and Pan Rack in Cupboard in the Base; Interior of Top and Inside of Doors Varnished; Art Glass Panels and Sugar Scoop in Top.

SIZE OF BASE COMPARTMENTS

1 Cupboard 17x17x25 in.
1 Bin 12x18x20 in.
1 Bread Box 8x11x20 in
1 Drawer 5x12x20 in
1 Drawer 5x29x20 in
1 Drawer 3x12x20 in
1 Drawer 4x12x20 in

SIZE OF TOP COMPARTMENTS

1 Cupboard 46x23x10 in
2 Bins 11x10x8 in.

	Height over all, inches.	Width over all, inches.	Height of Base, inches.	Depth of Base, inches.	Depth of Top, inches	Weight about, lbs	Each
‡No 710	70	48	36½	28	13	256	$50.00

Full Extension Nickeled Top on Base; Bottom Drawer in Base is Portable Metal Bread and Cake Box Divided in Two Compartments, Fitted with Hinged Metal Covers; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom and Pan Rack in Cupboard in the Base; Interior of Top and Inside of Doors Varnished. Sifter Flour Bin in the Top, with Heavy Metal Hopper with Sifter and Cap Attached

SIZE OF BASE COMPARTMENTS

1 Cupboard 23x24x26 in.
1 Drawer 5x12x20 in.
1 Drawer 6x12x20 in.
1 Bread Box 8x11x20 in.

SIZE OF TOP COMPARTMENTS

1 Cupboard 23x18x11 in
1 Flour Bin 10x13x18 in.
1 Open Cupboard 23x8x7 in

	Height over all, inches.	Width over all, inches.	Height of Base, inches.	Depth of Base, inches.	Depth of Top, inches.	Weight each about, lbs	Each
‡No 0018	67½	40	36½	27	12	300	$33.50

Wrapped in Paper and Crated

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory*

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern

Our shipping facilities are unequaled

We invite correspondence

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act

‡KITCHEN CABINETS.

The Lumber is all Kiln-Dried, Selected Stock, Carefully Machined, Nicely Sanded, Waxed and Finished. The Finish is Guaranteed to withstand the Steam, Heat and Moisture to which a piece of Furniture of this kind is exposed. The Doors, Drawers, Shelves and Bins are all Fitted and Adjusted and each piece Carefully Inspected before being crated for shipment. The Joints are Mortised, Tongued Grooved, Nailed, Screwed or Glued, depending on their location and the strain to which they are subjected. A High Grade of Glue is used that will not permit any of the Joints to open up. The Drawers are Planed and the Bottoms Lipped in. The Hardware is Antique Copper Finish. Push Buttons are used on the Large Doors. Fitted with Lignum-V-ine Casters.

Oak, Golden Oak Finish; Two Compartments in Sliding Flour Bin in Base; Five Glass Spice Jars, with Aluminum Screw Caps; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom in Cupboard in the Base; Wood Panels in Top Doors; Interior of Top and Inside of Doors Varnished.

SIZE OF BASE COMPARTMENTS.
1 Cupboard 26x18x25 in.
1 Drawer 12x20x5 in.
1 Drawer 23x20x5 in.
1 Bin 12x18x24 in.

SIZE OF TOP COMPARTMENTS.
1 Cupboard 38x33 in.

	Height over all, inches	Width over all, inches	Height of Base, inches	Depth of Base, inches	Depth of Top, inches	Weight each about, lbs	Each
‡No. 18...	77	42	36½	28	12	238	$33.50

Soft Wood, Imitation Golden Oak Finish; Two Sliding Flour Bins with Metal Bottoms; Two Drawers and Sliding Cutting and Kneading Boards in Base; Wood Panels in Top Doors. Interior of Top and Inside of Doors Varnished.

SIZE OF BASE COMPARTMENTS.
2 Drawers 3½x17x24 in.
2 Bins 13½x17½x24 in.

SIZE OF TOP COMPARTMENTS.
2 Cupboards 7x26 in.
1 Cupboard 8x23 in.
1 Open Board 23x12 in.

	Height over all, inches	Width over all, inches	Depth of Base, inches	Height of Base, inches	Depth of Top, inches	Weight each about, lbs	Each
‡No. 28..	65	48	28	28	8	128	$18.00

Top and Base Crated Separate.

Oak, Golden Oak Finish; Two Compartments in Sliding Flour Bin in Base; Five Glass Spice Jars, with Aluminum Screw Caps; Sliding Cutting Board, Sliding Shelf, Galvanized Sheet Metal Bottom in Cupboard in the Base; Glass Panels in Top Doors; Interior of Top and Inside of Doors Varnished.

SIZE OF BASE COMPARTMENTS
1 Cupboard 26x18x26 in.
1 Drawer 12x20x5 in.
1 Drawer 23x20x5 in.
1 Bin 12x18x24 in.

SIZE OF TOP COMPARTMENTS
1 Cupboard 37x18x27 in.
2 Open Cupboards 7x8x13 in.
1 Bin 18x18x6 in.

	Height over all, inches	Width over all, inches.	Height of Base, inches.	Depth of Base, inches.	Depth of Top, inches.	Weight each about, lbs.	Each.
‡No. 89...	66	42	32½	28	12	222	$33.50

Wrapped in Paper; Top and Base Crated Separate.

Soft Wood, Imitation Golden Oak Finish; Two Sliding Flour Bins with Metal Bottoms; Cutlery Drawer and Sliding Cutting Board in Base; Glass Panels in Top Doors. Interior of Top and Inside of Doors Varnished.

SIZE OF BASE COMPARTMENTS.
1 Drawer 3½x17x24 in.
2 Bins 16x15x24 in.

SIZE OF TOP COMPARTMENTS.
Cupboard 38x33 in.

	Height over all, inches.	Width over all, inches.	Height of Base, inches.	Depth of Base, inches.	Depth of Top, inches.	Weight each about, lbs.	Each.
‡No. 26...	74½	42	36½	28	12	196	$19.00

Top and Base Crated Separate.

‡KITCHEN CABINETS

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Soft Wood, Imitation Golden Oak Finish; Two Sliding Flour Bins with Metal Bottoms.

Two Drawers and Sliding Cutting and Kneading Boards.

SIZE OF COMPARTMENTS.
2 Drawers 3½x16½ in.
2 Bins 16¼x16½ in.

	Height over all, inches.	Width over all, inches.	Depth of Base, inches.	Weight each about, lbs.	Each
‡No. 8.....	28½	42	28	78	$9.50

Cutlery Drawer and Sliding Cutting Board.

SIZE OF COMPARTMENTS.
1 Drawer 3½x16½ in.
2 Bins 14½x14½ in.

	Height over all, inches	Width over all, inches.	Depth of Base, inches.	Weight each about, lbs	Each
‡No. 6.....	28½	42	28	65	$8.50

One in a Crate.

We carry heavier stocks and a more complete assortment than is shown by any other house.

This gives YOU the advantage of OUR having the goods when you want them.

The best assortment of goods shown in America is at your disposal.

‡ Goods marked thus ‡ are not carried in stock and can only be furnished by shipment direct from factory.

AUTOMOBILE HORNS

KLAXET

Motor Driven Produces The True Klaxon Warning Note

The Klaxet is the First Really Efficient, Dependable, Thoroughly Guaranteed Warning Signal to be Sold at a Low Price

It is Not a "Buzzer." It Operates on exactly the Same Principle as the Klaxonet—a Steel Diaphragm Vibrated by an Electric Motor.

The Klaxet Produces the True Klaxon Warning Note—Abrupt, Imperative, To-The-Point. It is Sold Under the Regular Klaxon Guarantee. Can be Operated from Either Storage or Dry Batteries.

4-inch Diaphragm; 5½ inch Horn, Length Over All, 9 Inches. Has Oval Shaped Horn, 4x5½ Inches; Net Weight, 3 lbs.

Each Horn is Supplied with Push Button to Match Finish of the Instrument and 10 Feet of Insulated Cord.

	Each
No. KBB—Black Enameled and Brass	$19 20 12 00
No. KBN—Black Enameled and Nickel	19 20 12 00
No. KBE—Black Enameled	19 20 12 00
No. KN—Nickel Plated	19 20 12 00

One in a Case, Weight 9 lbs.

THE LONG HORN TYPES

Sounds like an Electric Horn, but is Mechanically Operated.

The Long Horn is a Perfect Warning Signal, Embracing Qualities Not Found in Any Other Type of Automobile Signal. Its Housing is Made of a Good Heavy Grade of Brass; the Projector is of One Piece, Without Seam, All Gears are Cut, All Parts of Contact are Hardened and the Vibrator Runs on a Ball Bearing. To Operate the Long Horn Instantly, Nothing but a Slight Pressure of the Hand or the Elbow is Required, and the Sound May be Varied from a Soft, Pleasing Tone to the Most Powerful and Penetrating Warning Note, by a Variance of Pressure of the Hand or the Elbow of the Operator on the Plunger. As Soon as the Plunger is Touched, the Horn Emits a Sound, the Volume of Which is Governed Only by the Pressure Brought to Bear Upon the Plunger. It Works Instantaneously! There is No Battery, Wiring, Flexible Shaft, Friction Pulley or Bulb to Get Out of Order. Neither Rain, nor Sleet, Snow or Mud Will Interfere With the Operation of This Horn. It is the Most economical of All Horns on the Market since it Costs Absolutely Nothing to Operate and Maintain. Supplied With a Bracket With Which it is Attached to the Machine. It is Very Simple to Attach, the Position Being Left to the Discretion of the Operator who can Place it in the Most Convenient Location.

Sectional View Showing Motor and Method of Starting It in Motion.

Length Over all 9½ Inches; Length of Projector 6 Inches; Diameter of Bell 6 Inches; Net Weight 7½ lbs.

	Each
No. LHBB—Black Enameled and Brass	$29 70 18 00
No. LHBN—Black Enameled and Nickel	29 70 18 00
No. LHN—Nickel Plated	34 85 21 00

One in a Case Weight 10 lbs.

THE JUNIOR LONG HORN—TYPE JS

Produces the Same Sound as the Regular Long Horn, but is Smaller and Lighter. Fastens to Machine by a New Style Bracket

Length Over All 7½ Inches, Diameter of Bell 4 Inches, Net Weight 3 lbs.

	Each
No. JSBB—Black Enameled and Brass	$18 15 11 00
No. JSBN—Black Enameled and Nickel	18 15 11 00

One in a Box Weight 6 lbs

JUNIOR LONG HORN—TYPE JM

Made Especially for Motorcycles

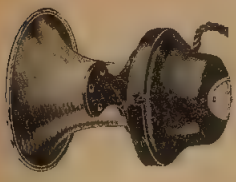
This is Made Exactly Like the Model JS only has a Short Projector and is Especially Made for a High Grade Motorcycle Horn. Sounds like an Electric Horn, but is Operated Mechanically by Simply Pressing the Button.

Length Over All 4½ In.; Diam of Bell 4½ In.; Net Wt 3¼ lbs

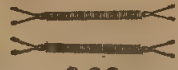
	Each
No. JMBN—Black Enamel and Nickel	$18 80 11 00

One in a Box, Weight 6 lbs.

AUTOMOBILE HORNS



DAD BUTTON



FORDORN ELECTRIC

FOR FORD CARS ONLY

The Only Horn That Blows Directly From Ford Magneto Current

	Each
Fordorn—Horn only, Polished Brass Bell; Black Enameled Base (Complete with screws)	$8.00
Dad Button—To attach to Steering Wheel; Acts instantly	2.25 1.50
No. CFH—Cable for Fordorn Horn	1.00 .50
	Per Pair
No. CCF—Cable Clamps for Fordorn Horn	$0.40 .25
	Each
No. CQ —Complete Outfit	$12.00 8 00

CHIME HORNS

HORNS ONLY

Attached to Exhaust Pipe and Operated by Pedal from Seat; Four Harmonious Tones Combined in One Loud Warning Blast that Clears the Way; Cannot Become Clogged, Works Under Low Pressure and can be Attached to all Cars, also Adapted to Motor Boats, Launches, in fact can be Attached to any Exhaust Pipe, Outside Made of Seamless Brass Tubing; Inside Perfectly Bored, Aluminum Fitted and Tested for a Harmonious Tone.

	Each
No. 2GH—Large Horn; Length 13½ inches; Diameter 2½ inches; Weight, 5 lbs.	$6.00
No. 2GH—Small Horn; Length 11½ inches; Diameter 2 inches, Weight 2 lbs.	4.00
	Loose

COMPLETE SETS READY TO ATTACH TO CAR

Set Consists of Horn, Foot Pedal, Valve; Spring, Five Feet of Chain and Two Pulleys

LARGE HORN SETS	Per Set
No. L1¼—Fits 1¼-in. Steel Tubing; Weight, 7½ lbs.	$8.80
No. L1½—Fits 1½-in. Steel Tubing, Weight, 7½ lbs.	8.80
No. L1¾—Fits 1¾-in. Steel Tubing, Weight, 7½ lbs.	8.80
No. L2 —Fits 2 -in. Steel Tubing, Weight, 7½ lbs.	8.80
No. L2¼—Fits 2¼-in. Steel Tubing, Weight, 7½ lbs.	8.80
No. L2½—Fits 2½-in. Steel Tubing, Weight, 7½ lbs.	8.80
No. L1I¼—Fits 1¼-in. Iron Pipe; Weight, 7½ lbs.	8.80
No. L1I½—Fits 1½-in. Iron Pipe; Weight, 7½ lbs.	8.80
No. L2I —Fits 2 -in. Iron Pipe; Weight, 7½ lbs.	8.80

SMALL HORN SETS	Per Set
No. S 1¼—Fits 1¼-in. Steel Tubing; Weight, 4½ lbs.	$7.15
No. S 1½—Fits 1½-in. Steel Tubing; Weight, 4½ lbs.	7.15
No. S 1¾—Fits 1¾ in. Steel Tubing, Weight, 4½ lbs.	7.15
No. S 2 —Fits 2 -in. Steel Tubing, Weight, 4½ lbs.	7.15
No. S 2¼—Fits 2¼-in Steel Tubing, Weight, 4½ lbs.	7.15
No. S 2½—Fits 2½-in. Steel Tubing; Weight, 4½ lbs.	7.15
No. S1I¼—Fits 1¼-in. Iron Pipe; Weight, 4½ lbs.	7.15
No. S1I½—Fits 1½-in. Iron Pipe; Weight, 4½ lbs.	7.15
No. S2I —Fits 2 -in. Iron Pipe; Weight, 4½ lbs.	7.15

BULB HORNS

Polished and Lacquered Spun Brass, Pure Rubber Bulb; Fitted with Detachable Bell Screws and Nickel Plated Wire Gauze, Flexible Tube.

	Each
No. 15—Oval Bell 7x5 inches; 40 inch Flexible Tube; Weight 2¾ lbs.	$11.00
No. 60 Oval Bell 8x6 inches; 40 inch Flexible Tube; Weight 2¾ lbs	13 10

One in a Box

SERPENTINE

The Reed is Placed in Center of Tube Instead of in the Horn Proper as is the Case with Other Bulb Horns; the Reed is Thoroughly Protected; the Serpentine Sound Dispenser Produces a Very Loud and Clear Tone.

	Each
No. 46—Polished and Lacquered Spun Brass Horn with Guard, 40 inch Flexible Tube; Detachable in Center; Fitted with Bracket and Best Quality Rubber Bulb; Weight 2 lbs	$6 00

One in a Box

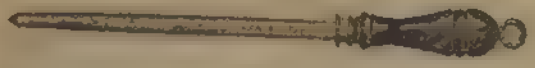
Spun Brass Bell, Tube and Bend; Highly Polished; Metal Reed; Splendid Tone Effect.

	Each
No. 4—4½ inch Bell; Length Over All 12 inches; Diameter of Bell 2¾ inches; Weight 1¾ lbs.	$4 49

One in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

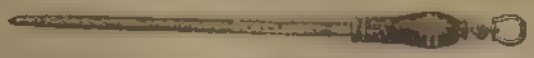
STEELS.



KEEN KUTTER

Ebonized Wood Handle, with Tinned Lead Ferrule and Plated Wire Screw Eye; Hoffman Cut, with Magnetized Surface.

No. K540—KITCHEN, 8 in. Sharpening Surface; Weight per Dozen about 2 lbs. ... Per Dozen, $4.50



KEEN KUTTER

BUTCHERS'; Rosewood Handle, with Fancy Lead Ferrule and Plated Malleable Iron Swivel, Hoffman Cut, with Magnetized Surface.

Nos.	K820 10	K820 12	K820 14
Sharpening Surface, Inches	10	12	14
Per Dozen	$16.00	19.00	22.00

KEEN KUTTER

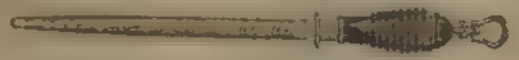
BUTCHERS', Stag Handle, with Tinned Lead Ferrule and Cap; Malleable Iron Swivel; Hoffman Cut, with Magnetized Surface.

Nos.	K660/10	K660/12	K660/14
Sharpening Surface, In.	10	12	14
Per Dozen	$13.00	17.00	20.00

KEEN KUTTER

BUTCHERS'; Imitation Horn Handle with Tinned Lead Ferrule and Guard; Malleable Iron Swivel; Hoffman Cut, with Magnetized Surface.

Nos.	K640 10	K640/12	K640/14
Sharpening Surface, Inches	10	12	14
Per Dozen	$11.00	13.00	16.00



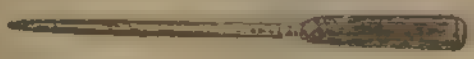
KEEN KUTTER

BUTCHERS', Ebonized Wood Handle, with Tinned Lead Ferrule and Malleable Iron Swivel Hoffman Cut, with Magnetized Surface.

Nos.	K5410B 10	K5410B 12	K5410B 14
Sharpening Surface, Inches	10	12	14
Per dozen	$8.00	$ 9.60	[illegible]

One-half Dozen in a Cardboard Box; Weight per Dozen about 13 lbs.

KNIFE SHARPENERS.



Patent Stag Handle, with Nickel Plated Iron Ferrule and Cap.

No. 929—CARVER, 8½ in. Steel Sharpening Surface; Weight per Dozen about 5½ lbs. ... Per Dozen, $9.00

One-half Dozen in a Cardboard Box.

Enamel Wood Handle, Assorted Colors, with Nickel Plated Ferrule, Pure Corundum on Wire Center.

No. 14—CARVER; 9 in. Sharpening Surface; Weight per dozen about 7 lbs. ... Per Dozen, $6.50

One Dozen Steels, with Display Stand, in a Wooden Box

CARBORUNDUM.

Solid Carborundum Firmly Secured to Handle by a Steel Rod Extending through the entire Length; Nickel Plated Ferrule; Stained Wood Handle.

No. 70—Length of Sharpening Surface 8¼ in.; Weight per dozen about 4 lbs. ... Per Dozen $4.10

One Dozen in an Easel Back Cardboard Display Box, 13x13 in.

KNIFE SHARPENERS.

Stained Beechwood Handle; Tinned Iron Ferrule and Cap; Compressed Emery on Wire Center.

No. 30—CARVER; 8 in. Sharpening Surface; Weight per Dozen about 4 lbs. ... Per Dozen, $2.50

One Dozen in a Cardboard Box.
Adapted for Carvers, Butcher, Table and Kitchen Knives.

Aluminum Frame, Buff Finish, has ½ in Steel Rolls; Can be fastened on the Wall or Table; Each Complete with Set of Screws.

No. 0—2½ in. Diameter... Per Dozen, $4.00

Aluminum Frame and Handle, ½ in. Steel Rolls.

No. X—Length over all 3¾ [illegible] ... Per Dozen, $3.00

One Dozen in a Cardboard Box; Weight per Dozen about 1½ lbs.

DIRKS.

Extra Quality Crucible Steel Blades, Beveled, Highly Tempered and Carefully Ground, Full Crocus Polished; Stitched Leather Sheaths.

FIRST QUALITY SELECTED PEARL HANDLE; German Silver Fancy Ferrule and Plain Guard. [illegible]

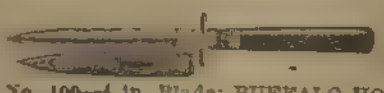
No. 300—4 in. Blade ... Per Dozen, $42.00

WHITE CELLULOID HANDLE; German Silver Fancy Ferrule and Plain Guard; Spear Point.

No. B274—4½ in. Blade. ... Per Dozen, $24.00

GENUINE STAG HANDLE; German Silver Fancy Ferrule, Plain Cap and Guard, Spear Point.

No. B268—4½ in. Blade ... Per Dozen, $16.00



German Silver Fancy Ferrule and Plain Guard; Spear Point.

Per Dozen
No. 100—4 in. Blade; BUFFALO HORN HANDLE... $13.00
No. 200—4 in. Blade; WHITE BONE HANDLE; CORRUGATED FERRULE ... 13.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

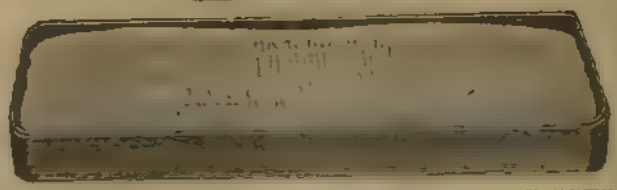
BOWIE KNIVES.

SCALE TANG STAG HANDLE; Three Pins; German Silver Guard. Clip Point Blade.

Nos.	1000/5	1000/6	1000/7	1000/8
Blades, inches	5	6	7	8
Weight per dozen about, lbs.	4½	5	6	7½
Per dozen	$15.00	16.00	18.50	24.00

One-half Dozen in a Cardboard Box.

CARVER CASES.



IMITATION LEATHERETTE, MAROON COLOR, RIBBED CLOTH LINED

Length 15½ in.; Width 5 in.; HOLDS 1 SET (3 PIECES) 8 OR 9 IN. STAG HANDLE CARVERS

	Per Dozen
No. W100/3—WHITE Lined	$8.50
No. B100/3—BLUE Lined	8.50
No. P100/3—PINK Lined	8.50

Weight per Dozen about 8 lbs.

Length 15 in., Width 4 in.; HOLDS 1 PAIR 8 OR 9 IN. STAG HANDLE CARVERS

	Per Dozen
No. W100/2—WHITE Lined	$6.50
No. B100/2—BLUE Lined	6.50
No. P100/2—PINK Lined	6.50

Weight per Dozen about 8 lbs.

Length 15½ in., Width 3 in.; HOLDS SET (5 PIECES) 8 OR 9 IN. CARVERS AND 1 PAIR BIRD CARVERS.

No. P100/5—PINK Lined ..... Per Dozen, $14.00

Weight per Dozen about 15 lbs.

Length 15 in., Width 4½ in.; HOLDS 1 SET (3 PIECES) PEARL OR CELLULOID HANDLE, OR BREAKFAST CARVERS

	Per Dozen
No. W200/3—WHITE Lined	$7.00
No. B200/3—BLUE Lined	7.00

Weight per Dozen about 12 lbs.

Length 12 in., Width 3½ in., HOLDS 1 SET (3 PIECES) BIRD CARVERS.

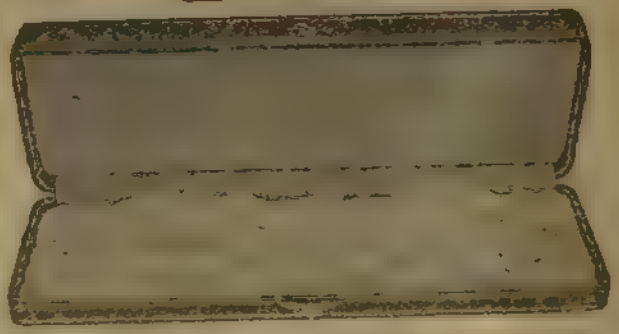
	Per Dozen
No. W300/3—WHITE Lined	$7.00
No. B300/3—BLUE Lined	7.00
No. P300/3—PINK Lined	7.00

Length 12 in., Width 3½ in., HOLDS 1 PAIR BIRD CARVERS.

	Per Dozen
No. W300/2—WHITE Lined	$7.00
No. B300/2—BLUE Lined	7.00
No. P300/2—PINK Lined	7.00

Weight per Dozen about 7 lbs.
One-twelfth Dozen in a Cardboard Box.

CARVER CASES.



FIRST QUALITY KID LEATHER, MAROON COLOR, WHITE SILK LINED.

	Per Dozen
No. 33—Length 18 in., Width 6 in.; HOLDS 1 SET (3 PIECES) 8 OR 9 IN. CARVERS	$72.00

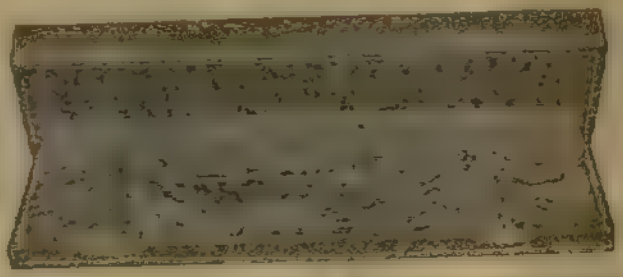
Weight per Dozen about 30 lbs

No. 55—Length 13 in.; Width 5⅝ in.; HOLDS 1 SET (3 PIECES) 8 OR 9 IN. CARVERS AND 1 PAIR BIRD CARVERS $7.00

Weight per Dozen about 60 lbs.

No. 22—Length 13½ in., Width 5 in.; HOLDS 1 SET (3 PIECES) BIRD CARVERS $4.00

Weight per Dozen about 18 lbs
One-twelfth Dozen in a Cardboard Box.



FLAT LEATHERETTE, DARK RED PLUSH CLOTH LINED NESTED IN PAPER CASES

Length 18⅛ in., Width 6⅝ in.; HOLDS 1 SET (3 PIECES) 8 OR 9 IN. CARVERS

	Per Dozen
No. LW3—WHITE Outside	$27.00
No. LB3—NAVY BLUE Outside	27.00
No. LG3—DARK GREEN Outside	27.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 24 lbs

THE ADVANTAGES TO THE CONSUMER IN BUYING UNDER THE KEEN KUTTER TRADE MARK.

Only a small proportion of tool buyers are experts, and even the expert's judgment of a tool is limited to its balance, conformation and set. The quality and temper of the steel in a tool can only be determined by the user through actual service.

The KEEN KUTTER trade mark makes the tool buyer as sure of the quality that is in the steel which he can not see, as he is of the kind of wood that is in the handle, which is more apparent and more easily judged.

The KEEN KUTTER Trade mark is a guarantee based on [illegible] and scientifically exact methods which make tool buying safe for the most inexperienced.

[illegible] against the poorest possibility of a KEEN KUTTER tool turning out [illegible] KEEN KUTTER [illegible] If [illegible] will be [illegible] by the dealer to the buyer and by us to the Retail Merchant.

Because the KEEN KUTTER trade mark covers a complete line of tools and cutlery the consumer is given an absolute guaranty of satisfaction only obtainable to be sure of securing the highest quality in any tool or piece of cutlery.

The buyer will know that the KEEN KUTTER hammer is as good as the KEEN KUTTER saw. That the KEEN KUTTER chisel is just as good as work as is the KEEN KUTTER knife. As good for the purpose intended, and that all are the best that can be made.

POCKET KNIF[illegible] ORTMENTS

*J. KOESTER'S SO[illegible] MANY

FULLY GUARANTE[illegible]

[illegible] Assortment

No. 12KP—Contains Twelve Knives; Six with Three Blades and Six with Four Blades. Assorted Lengths 3 and 3¾ inches. Pearl Handles; Plain and German Silver Bolstered Ends. Half Polished Blades, Brass Lining. $22 00

Each Assortment in a Red Velvet Lined Compartment Cardboard Display Case, Size 10½ x 3¾ x 1¼ inches. Weight per Assortment [illegible] lbs.

[illegible] Assortment

No. KST Contains Twelve Knives. Six with Three Blades and Six with Four Blades. Assorted Lengths [illegible] Inches. Pearl Patent Stag Handles, German Silver Copper and Bolster Lined, and Red Fibre Shield. Assorted Pearl Handles, Brass Lining. Weight per Assortment [illegible] lbs. $11 00

No. KSP—Contains Twelve Knives; Three with Three Blades, Patent Stag Handles, Three with Four Blades, Pearl Handles; Three with Four Blades, Patent Stag Handles, Three with Four Blades, Pearl Handles, Assorted Lengths 3, 3¼ and 3½ inches. German Silver Copper and Brass Lined and Half Polished Brass Backs. Brass Lining. Weight per Assortment 3 lbs. 16 50

Each Assortment in a Red Velvet Lined Compartment Cardboard Display Case, Size 10½ x 3¾ x 2¼ inches.

One Assortment with Case in a Box.

"DIAMOND EDGE IS A QUALITY PLEDGE"

COMPASSES

KRAEMER PATHFINDER

Open Face Solid Brass Case, Highly Polished and Lacquered, Moisture and Dust Proof; With Brass Wire Loops to Attach Fobs; Black Velvet Finish, Aluminum Dials, Discs and Direction Points, with Pearl Luminous Figures, Making it Possible to Read the Compass at Night Without the Aid of a Light; All Points of Directions Seen at a Glance. Needles Made of Especially Prepared Magnetic High Carbon Steel. Heavy Tool Steel Pivots with Large Jewel Cap Bearings. A Handsome Fob Accompanies Each Compass. Guaranteed Against All Imperfections in Manufacture.

Especially Suited to the Needs of Hunters, Sportsmen, Automobilists, Motor Cyclists, Aeronautists and Yachtsmen

1⅝ inch Four Point Needle

	Per Dozen
No. 4—1¾ inch Case; Sunk Glass Top with Brass Protecting Rim; Weight per Dozen 1¼ lbs	$44.00
No. 6—1¾ inch Case; Raised Beveled Glass Top; Weight per Dozen 1 lb	44.00

One Dozen in a Box

1⅝ inch Floating Disc Dial

	Per Dozen
No. 3—1¾ inch Case; Sunk Glass Top with Brass Protecting Rim; Weight per Dozen 1¼ lbs	$55.00
No. 5—1¾ inch Case; Raised Beveled Glass Top; Weight per Dozen 1 lb	44.00

One Dozen in a Box

Cut Shows Fob which Accompanies Each Compass; National Sportsman Gilt Emblem, Gilt Buckle; Creased Edge Russet Strap.

1⅝ inch Four Point Needle

	Per Dozen
No. 2—2 inch Case; Sunk Glass Top with Brass Protecting Rim; Weight per Dozen 3 lbs	$50.00

1⅝ inch Floating Disc Dial

	Per Dozen
No. 1—2 inch Case; Sunk Glass Top with Brass Protecting Rim; Weight per Dozen 3 lbs	$50.00

One Dozen in a Box

SADDLES.

MOSBY.

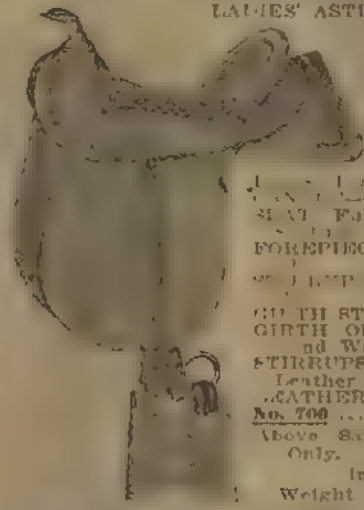
SIMMONS' DESCRIPTION.

TREE—No. 618; Mosby; Canvas Covered.
SKIRTS—12 in. Deep; Unlined, Shaped With Wheeled and Creased Border.
CANTLE—Roll.
SEAT—Full; Covered, With Hole in Front.
FRONT—Fancy Nailed; With Round Leather Handle on Near Side.
SINGLE RIG.
STIRRUP STRAPS—1¾ in.; With Slide Loop, Made to Buckle.
FENDERS—7½ in. Wide, 14 in. Long, Riveted on Stirrup Straps at Top; With Loop at Bottom; Wheeled and Creased Border.
GIRTH STRAPS—1¾ in., To Tie.
GIRTH OR CINCHA—No. 5; 3½ in.; White Cotton Back Band Web; With Rings.
STIRRUPS—No. 4; Texas; Plain Wood, 4 in. Wide at Bottom.
BARS—Leather Covered.
RINGS—Not Covered.
LEATHER—Russet Skirting.

		Each
No. 618	14 IN. SEAT; 20 IN SKIRTS	$20.00
No. 618	15 IN SEAT, 21 IN SKIRTS	22.00

Back Rings and Tie Strings as shown in Cut.
Packed Loose. Weight Each about 15 lbs.

LADIES' ASTRIDE



DESCRIPTION.

TREE—15 in. Canby; Canvas Covered, Lined Fork.
HORN—Leather Covered.
SKIRTS—13½ in. Wide, 21½ in. Long to Center of Seat.
[illegible] Leather Covered.
[illegible]—Straight.
SEAT—Full Quilted; Snuff Color [illegible] Leather.
FOREPIECE—Full Basket Stamped [illegible]
[illegible] LEATHERS—1¾ in.; To [illegible]
GIRTH STRAPS—1¾ in.; To Tie.
GIRTH OR CINCHA—No. 5 Back and Web with Ring.
STIRRUPS—No. 2; 2½ in.; Wood, Leather Covered.
LEATHER—Russet Skirting.

No. 700 ..... Each $38.50

Above Saddle Made Single Rig Only. Packed One or More in a Wood Box.
Weight Each about 15 lbs.

MORGAN SIDE

DESCRIPTION.

TREE—No. 607, Morgan Side, 18 in. Seat, Canvas Covered.
SKIRT—15 in. Deep, extending over Front 17 in. Wide; Plush Inlaid, Leather Bound.
CANTLE—Leather Bound.
SEAT—Plush to match Skirt and Forepiece; Hook on Off Side.
HORN—Calfskin; With Seamed Leather Back.
STIRRUP STRAP—¾ in.; With Slide Loop, To Buckle.
GIRTHS OR CINCHAS—No. 166; 5 in.; Fancy Cotton, Mexican, with Rings.
GIRTH STRAPS—1 in.; To Tie.
STIRRUP—No. 14 Ladies' Metal; XC Plate (Tinned).
BARS—Padded; Hair Stuffed, Sheepskin Covered.
LEATHER—Russet.

No. W410—Double Lace Rig
Each ..... $[illegible]

Packed Loose; Weight Each about 12 lbs.

SIDE SADDLES.

MORGAN SIDE.

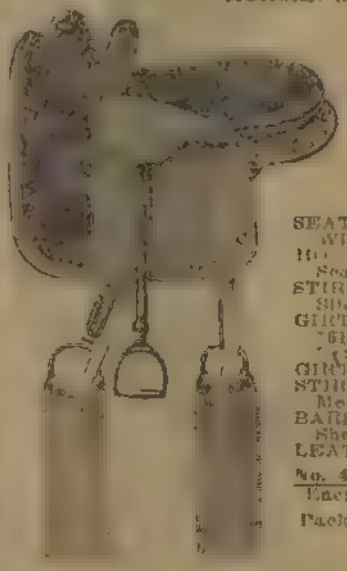
DESCRIPTION

TREE—No. 60[illegible], Morgan Side, 18 in. Seat, Canvas Covered.
SKIRT—16 in. Deep, extending over Front 17 in. Wide; Fancy Figured Front; With Ribbed Border.
CANTLE—Leather Bound.
SEAT—Fancy Figured Plush, Seamed Leather Jockey; Hook on Off Side.
HORN—Calfskin, With Seamed Leather Back.
STIRR[illegible]
GIRTHS OR CINCHAS—No. 161; 20 Strand White Cotton; Texas with Rings.
GIRTH STRAPS—1 in., To Tie.
STIRRUP—No. 14; Ladies' Metal, XC Plate (Tinned).
BARS—Padded; Hair Stuffed, Sheepskin Covered.
LEATHER—Russet.

		Each
No. 40[illegible]	Double Lace Rig	$18.50

Packed Loose; Weight Each about 12 lbs.

MORGAN SIDE.



DESCRIPTION.

TREE—No. 607, Morgan Side; 18 in. Seat; Canvas Covered.
SKIRT—[illegible] Deep, 18 in. Wide, Embossed Border.
FOREPIECE—Fancy Figured Plush; With Leather Binding.
CANTLE—Leather Bound.
SEAT—Fancy Figured Plush; With Hook on Off Side.
HORN—[illegible] with Seamed Leather Back.
STIRRUP STRAP—¾ in. With Slide Loop; To Buckle.
GIRTHS OR CINCHAS—No. 161, 20 Strand White Cotton, Texas, with Rings.
GIRTH STRAP—1 in., To Tie.
STIRRUP—No. 14—Ladies' Metal; XC Plate (Tinned).
BARS—Padded; Hair Stuffed; Sheepskin Covered.
LEATHER—Russet.

No. 406—Double Lace Rig
Each $16.50

Packed Loose; Weight Each about 12 lbs.

MORGAN SIDE

DESCRIPTION

TREE—No. 607 Morgan Side; 18 in. Seat; Canvas Covered.
SKIRT—14¼ in. Deep, extending over Front, 17 in. Wide, Embossed Border.
CANTLE—Leather Bound.
SEAT—Fancy Figured Plush, With Hook on Off Side.
HORN—Calfskin; With Seamed Leather Back.
STIRRUP STRAP—¾ in.; With Slide Loop To Buckle.
GIRTH STRAP—1 in.; To Tie.
GIRTHS OR CINCHAS—No. 161; 20 Strand White Cotton, Texas, with Rings.
STIRRUP—No. 14—Ladies' Metal; XC-Plate (Tinned).
BARS—Padded; Hair Stuffed, Sheepskin Covered.
LEATHER—Russet.

No. 404—Double Lace Rig
Each ..... $[illegible]

Packed Loose; Weight Each about 13 lbs.

HORSE COLLARS.

OUR LINE OF HORSE COLLARS is the Strongest and Offers the Very Best Selections that can be Manufactured. They are made from No. 1 Selected Kip Collar Leather of a Uniform Thickness, Free from Cuts and Brands. All the Stretch is Skillfully Worked out. They are Stuffed with the Greatest Care and Will not Flatten Out or Break Down with Service.

THE SIMMONS HORSE COLLARS have a Large Rim and Wide Hame Room which Eliminates all Possibility of the Hames Slipping Off. They are Fitted with Soft Leather Neck Pads which are Large and Well Proportioned in their Drafts. Our Collars are Sewed with Heavy Thong Leather that is Exceedingly Durable. Special Care is Taken to see that the Top Billets are of Solid Material.

ALL COLLARS MARKED 50% WOOL OR HAIR FACE ARE GUARANTEED TO CONTAIN SAME.

OUR FLEX-IBLE THROAT COLLARS will perfectly Adjust Themselves to any Horse's Neck.

Variety of Styles Large Enough to Suit all Trade

No. 18

Fine Leather, Wool Faced, Flexible Rawhide Throat Perfect Draft, Perfect Shape.

Will Adjust Itself Instantly to any Horse's Neck.

The Most Perfect Collar Made.

No. 14

EXTRAORDINARY WIDE DRAFT; Wing Sewed, with ⅝ Flat Whang; Billet and Buckle Strap Both Attached with Rawhide Whang.

This Collar is Particularly Adapted for Very Heavy Work.

Showing Method of Measuring Draft of Collar.

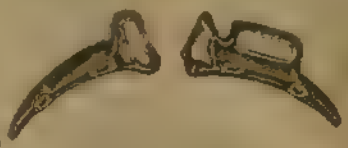
Showing a Half Sweeney Collar; A Full Sweeney is Narrower above Draft than a Half Sweeney

ILLUSTRATIONS SHOWING THE DIFFERENT PARTS OF HORSE COLLARS.

ALL DUCK—Duck Face, Duck Back
SPLIT AND DUCK—Duck Face, Split Back
SPLIT AND TICK—Tick Face, Split Leather Back
SPLIT AND KIP—Kip Leather Face, Split Leather Back
FULL KIP—Kip Leather Face, Kip Leather Back.

1 Face
2 Back
3. Rim.
4 Throat.
5 Pad.
6 Peak.
7 Billet.
8 Buckle
9. Flange.
10. Top
11. Middle Seam.
12. Out Seam.

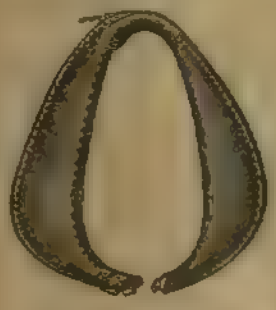
Showing Method of Measuring Size of Collar



BLAIR FASTENER

Malleable Iron, Japanned; 1½ in Hame Strap Loop, and 1¼ in. Pole Strap Loop; Fastened in Crevice between Rim and Body of Collar under Throat with 4 Iron Bolts Passing through Collar. Any Full Throat Collar can be furnished with Blair Fastener

Showing Metcalf's Top Fastener which can be used on all Top Collars



Open Throat Collar with Blair Fastener

Are especially Convenient when Pads are Used; Also the Collars and Hames can be taken off together.

LAMP STOVES.

Complete with Wicks

MODEL

Black Japanned Inside and Outside, One Piece Cast Iron Reservoir, Gallery and Top Grate, Top Grate Fastened to Gallery by Long Bolts; Dull Nickel Finish Cast Iron Front Chimney Frames Bright Tin Removable Chimney, Tilts Back to Light, Fastens with Brass Spring; Brass Wick Tubes 4 in.; Soldered to Reservoir, Wick Ratchet Housed in Brass Bushing

Per Dozen

No. 000—THREE BURNERS, 8½ in. High, 9½ in. Wide, 7 in. Deep. Capacity 2 Pints; Weight per dozen about 120 lbs.....$32.00

One-fourth Dozen in a Case

10 in. High, Diameter 9½ in. Black Japanned Tin, Removable Reservoir, Capacity 3½ Pints, Outside Filler; Tin Wick Tube, for 3½ in Flat Wick, Removable Chimney held together with Bolts and Nuts, Mica Windows, Corrugated Top Grate, Directions for Operating accompanies each Stove

Per Dozen

No. 1N—TWO BURNERS. Weight per dozen about 58 lbs $19.50

One-half Dozen in a Crate

16 in. High, Length 32 in., Depth 9½ in., Two Tanks Painted Red, Chimneys Black Japanned, Reservoirs fastened together, removable from Chimney Gallery, Tops Outside Fillers, Tin Wick Tubes, for 1 in. Flat Wick, Removable Chimney held together with Bolts and Nuts, Mica Windows, Corrugated Top Grate, Directions for operating accompany each Stove

No. 2N FOUR BURNERS, Weight per dozen about 64 lbs .....Per Dozen, $43.50

One-quarter Dozen in a Crate.

ALCOHOL STOVES.

FOR DENATURED ALCOHOL

UNIVERSAL COOK

Universal Alcohol Gas Stove is a Thoroughly Reliable and Effective Cooking Apparatus, which is as Simple and Easy to Operate as an Ordinary Gas Range. It Boils a quart of Water at 50° Fahrenheit in Six Minutes. It Burns the new Fuel Denatured Alcohol, which it converts into Gas and Mixes with Air, Producing a Pure and Intensely Hot Flame. Clean, Odorless, Absolutely Safe. Suitable for Constant Use in Kitchen or Dining Room and is Especially Desirable for Summer Cooking, Light Housekeeping, Camping, etc. Directions for Operating Accompany Each Stove

Japanned Sheet Steel Body, Brass Alcohol Tank and Burner, Dull Nickel Plated, Capacity of Tank ¾ Pint; Height to Top of Stove 5 in., Height over all 10⅝ in., Diameter 10⅝ in..

Each

No. 10A—ONE BURNER. Wgt. each about 11 lbs $6.50

Japanned Sheet Steel Body, Brass Alcohol Tank and Burners, Dull Nickel Plated, Capacity of 2 Quarts, Height [illegible] of Stove 6¾ in; Height over all 7¼ in; Width 13 [illegible] will Accommodate Size (Two Burner) Bake Oven.

Each

No. 20A—TWO BURNERS. Wgt. each about 30 lbs $13.00

One in a Wood Box

ALCOHOL STOVES.

"UNIVERSAL"

Brass Nickel Plated Body; Cast Iron Nickel Plated Top 6½ in. in Diameter, with 2½ in. Round Center Plate; Patent Ratchet Burner and Wick to Regulate Flame, Equipped with Generating Trough to Heat Burner for Starting

Tank fitted with Patent Removable Alcohol Syringe which is used to fill Trough with Alcohol with which to Heat the Burner; this Syringe has a [illegible] ended Cap and also acts as a Filler Cap to the Tank

Each Stove furnished with Brass Nickel Plated Wind Shield

This Stove will boil any Fluid in Six Minutes and will do the work of any One-burner Stove. Is especially adapted for use with Coffee Percolators. Lamp will burn three-quarters of an hour at full speed

FOR DENATURED ALCOHOL ONLY

No. 1—UNIVERSAL; Capacity ½ Pint; Diameter at Base 6½ in.; Height over all 5½ in.; Weight each about 2½ lbs.....Each, $3.50

LITTLE TRAVELER—POCKET

Cast Iron Nickel Plated Stand, Asbestos Packed Brass Plated Alcohol Tank, and Brass Plated Tin Cover, Brass Wire Gauze over Asbestos 1¼ Pint Polished Tin Covered Vessel, 4 in. in Diameter with Folding Wire Handle, Height over all 4 in

Per Dozen

No. 0—FOLDING. Weight per dozen about 18 lbs..$12.50

RAPID—POCKET

[illegible] Nickel Plated Tank, 3¾ in. in Diameter, Bright Steel Stand, ½ in. Wide, securely Soldered to Tank with Nickel Plated Double Tubed Gas [illegible] and Wick; ½ in. [illegible] Height over all 4⅛

Per Dozen

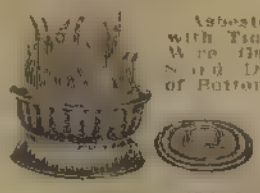
No. 1—STATIONARY. Weight per [illegible] about 16 lbs $9.50

CLIMAX—POCKET

Galvanized Iron, 3 Fold Hinged Stand; Asbestos Packed Alcohol Tank with Tin Bottom and Brass Cover, Brass Wire Gauze over Asbestos; 1¾ Pint; Polished Tin Cover Vessel 4 in. in Diameter with Folding Wire Handle; Height over all 5 in

Per Dozen

No. 800—FOLDING; Weight per dozen about 16 lbs $9.00



HOUCHIN'S—POCKET

Asbestos Packed Brass Alcohol Tank, with Tin Bottom and Brass Cover; Brass Wire Gauze over Asbestos. Removable Stand, Diameter of Top, 3¼ in., Diameter of Bottom, 3 in.; Height over all 2¾ in.

Per Dozen

No. 1020—FOLDING. Weight per dozen about 5 lbs $3.20

One-twelfth Dozen in a Cardb and Box.

SINGLE BURNER GAS PLATE.

WITHOUT TUBING.

Gray Iron, Nickel Plated, Not Polished. Height 2 in.; Diameter 4⅜ in., with Three Feet; Pipe ½ in. Outside Diameter at End, to connect to Gas Tubing, extends 2 in. and forms Lower Part of Burner in Center, fastened with Bolt and Nut. Provided with Airhole to allow for Proper Combustion; Perforations around Entire Edge of Burner through which Gas escapes for Ignition. Simple in Construction. Nothing to get out of order.

Per Dozen

No. 70—Weight per dozen about 16 lbs . $3.00

Packed Loose.

GASOLINE STOVES.

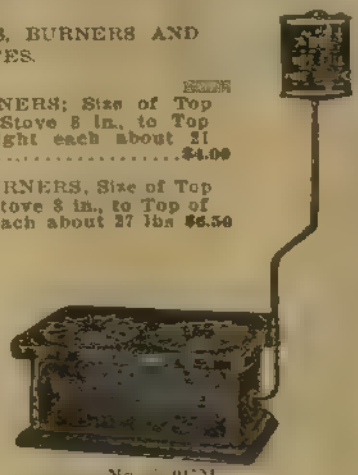
CLIPPER.

Steel Top and Frame, with Closed Ends and Back, Bolted together; Hard Baked Japanned and Striped; Stationary Japanned Tin Tank, with Shut-off Valve and Float, Holds 4 Quarts

IRON STAND PIPES, BURNERS AND GRATES.

No. 200GM—TWO BURNERS; Size of Top 22x15 in.; Height of Stove 8 in., to Top of Tank 38 in.; Weight each about 21 lbs $4.00

No. 300GM—THREE BURNERS, Size of Top 33x15 in.; Height of Stove 8 in., to Top of Tank 38 in.; Weight each about 27 lbs $6.50



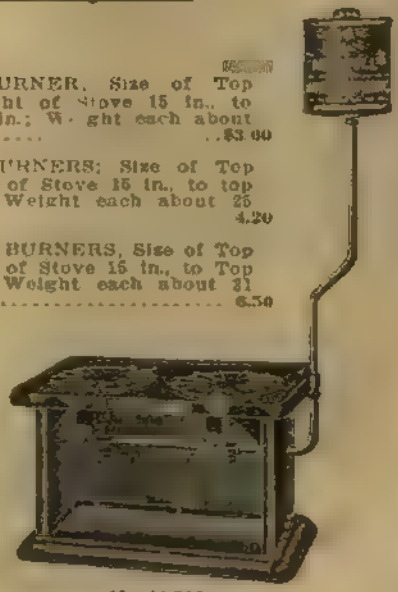
No 200GM

One in a Crate.

No. 10GM—ONE BURNER, Size of Top 11½x15 in.; Height of Stove 15 in., to Top of Tank 45 in.; Weight each about 18 lbs. $3.00

No. 20GM TWO BURNERS; Size of Top 22x15 in.; Height of Stove 15 in., to top of Tank 45 in., Weight each about 26 lbs. 4.20

No. 30GM—THREE BURNERS, Size of Top 33x15 in.; Height of Stove 15 in., to Top of Tank 45 in.; Weight each about 31 lbs. 6.50



No 20GM

One in a Crate.

GASOLINE STOVES.

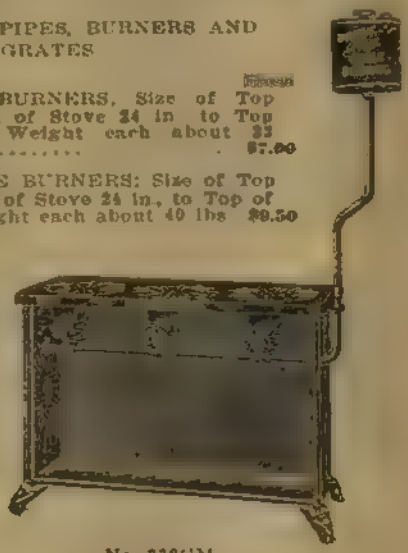
CLIPPER.

Steel Top and Frame, with Closed Ends and Back, Bolted together, Hard Baked Japanned and Striped; Stationary Japanned Tin Tank, with Shut-off Valve and Float, Holds 4 Quarts.

IRON STAND PIPES, BURNERS AND GRATES

No. 220GM—TWO BURNERS, Size of Top 22x15 in.; Height of Stove 24 in. to Top of Tank 54 in.; Weight each about 33 lbs. $7.00

No. 330GM—THREE BURNERS; Size of Top 33x15 in.; Height of Stove 24 in., to Top of Tank 54 in.; Weight each about 40 lbs $9.50



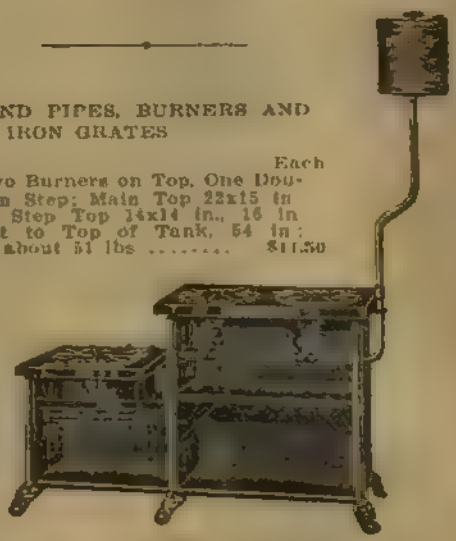
No 330GM

One in a Crate.

BRASS STAND PIPES, BURNERS AND IRON GRATES

Each

No. 1250.M—Two Burners on Top, One Double Burner on Step; Main Top 22x15 in. 24 in. High; Step Top 14x14 in., 16 in High, Height to Top of Tank, 54 in.; Weight each about 51 lbs $11.50



No. 1250M

One in a Crate.

LAMP STOVES.

Complete with Wicks

MODEL

Black Japanned Inside and Outside, One Piece Cast Iron Reservoir, Gallery and Top Grate, Top Grate Fastened to Gallery by Long Bolts, Dull Nickel Finish Cast Iron Front Chimney Frames; Bright Tin Removable Chimney, Tilts Back to Light, Fastens with Brass Spring; Brass Wick Tubes 4 in., Soldered to Reservoir; Wick Ratchet Housed in Brass Bushing

Per Dozen

No. 0—ONE BURNER; 8⅛ in. High, 6¾ in Wide, 4 in. Deep; Capacity ¾ Pint, Weight per dozen about 48 lbs....$11.00

One Dozen in a Case

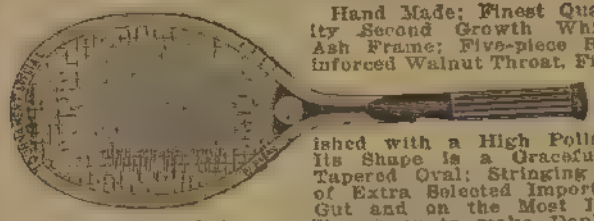
Per Dozen

No. 00—TWO BURNERS, 8⅛ in. High, 6¾ in Wide, 6¾ in Deep; Capacity 1¼ Pints; Weight per dozen, about 82 lbs $21.00

One-half Dozen in a Case

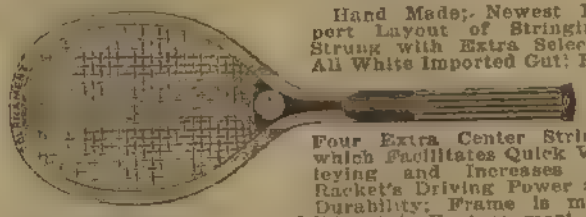
LAWN TENNIS RACKETS.

SIMMONS AMERICAN*



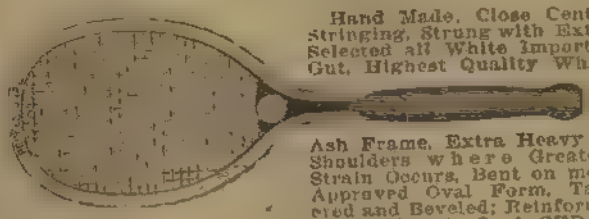
Hand Made; Finest Quality Second Growth White Ash Frame; Five-piece Reinforced Walnut Throat, Finished with a High Polish. Its Shape is a Gracefully Tapered Oval; Stringing is of Extra Selected Imported Gut and on the Most Improved Pattern, being so Strung as to make Double Stringing in the Center giving Greater Driving Power and Durability. CEDAR HANDLE, 5 to 5⅝ in. in Circumference, Inlaid with Narrow Strips of Cork, making a Grip upon which the Hand, however Moist, will not Slip; This Racket is especially adapted for Tournamont Players.

No. 02—TOURNAMENT SPECIAL*; Weights: 13, 13½, 14, 14½ and 15 ounces.....Each, $13.00



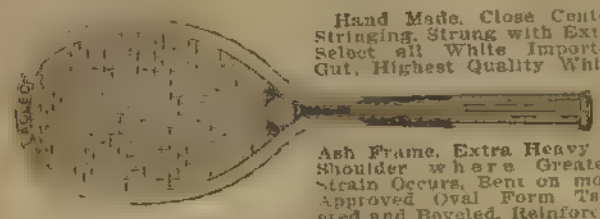
Hand Made; Newest Expert Layout of Stringing; Strung with Extra Selected All White Imported Gut; Has Four Extra Center Strings which Facilitates Quick Volleying and Increases the Racket's Driving Power and Durability; Frame is made from the Highest Quality White Ash, Bent on most approved Oval Form, Tapered; Finished with a High Polish; Five-piece Reinforced Walnut Throat; Reinforced Shoulders. CEDAR HANDLE; Handle Inlaid with Narrow Strips of Cork, making a Grip on which the Hand, however Moist, will not Slip.

No. 0C—TOURNAMENT*; Weights: 13, 13½, 14, 14½ and 15 ounces.....Each, $12.00



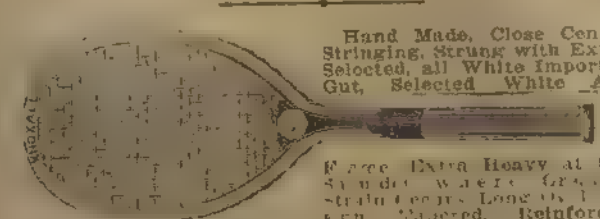
Hand Made, Close Center Stringing, Strung with Extra Selected all White Imported Gut, Highest Quality White Ash Frame, Extra Heavy at Shoulders where Greatest Strain Occurs, Bent on most Approved Oval Form, Tapered and Beveled; Reinforced Shoulders, Five Piece Mahogany Throat; Oval CEDAR HANDLE.

No. 03—PROFESSIONAL*; Weights 13, 13½, 14, 14½ and 15 ozs.....Each, $10.00



Hand Made, Close Center Stringing, Strung with Extra Select all White Imported Gut, Highest Quality White Ash Frame, Extra Heavy at Shoulder where Greatest Strain Occurs, Bent on most Approved Oval Form Tapered and Beveled, Reinforced Shoulders, Five Piece Reinforced Walnut Throat, Finished with a High Polish, CEDAR HANDLE, Inlaid with Narrow Strips of Cork, making a Grip on which the Hand, however moist, will not slip.

No. 0—LACLEDE*; Weight 13, 13½, 14, 14½ and 15 ozs.....Each, $10.00



Hand Made, Close Center Stringing, Strung with Extra Selected, all White Imported Gut, Selected White Ash Frame Extra Heavy at the Shoulder where Greatest Strain Occurs, Long Oval Ash Tapered, Reinforced Shoulder, Five Piece Reinforced Walnut Throat, Finished with a High polish CEDAR HANDLE.

No. 01—KNOXALL*; Weights 13, 13½, 14, 14½ and 15 ozs.....Each, $8.50

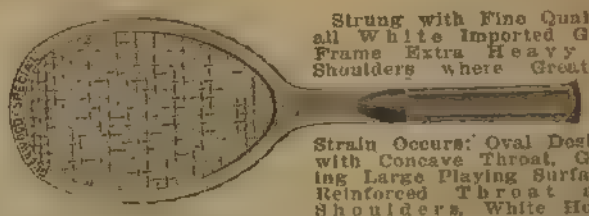
One in a Paper Bag.

LAWN TENNIS RACKETS.

SIMMONS AMERICAN*

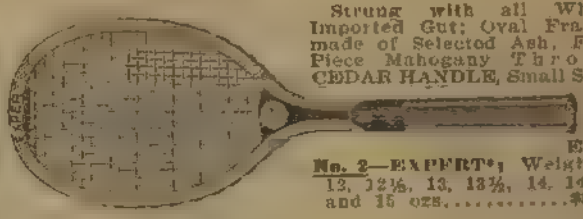
Hand Made, Strung with Selected, all White Imported Gut Selected White Ash Frame, Extra Heavy at Shoulders where Greatest Strain Occurs, Oval Design, Tapered; Reinforced Shoulder, Five Piece Reinforced Walnut Throat; Finished with a High Polish; CEDAR HANDLE.

No. 1—CHAMPIONSHIP*; Weights 13, 13½, 14, 14½ and 15 ozs.....Each, $0.50



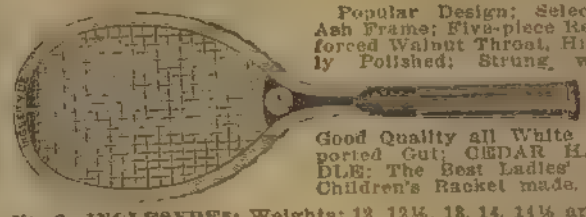
Strung with Fine Quality all White Imported Gut; Frame Extra Heavy at Shoulders where Greatest Strain Occurs; Oval Design with Concave Throat, Giving Large Playing Surface; Reinforced Throat and Shoulders, White Holly Throat Finished with a High Polish; A Very Beautiful Racket CEDAR HANDLE, Small Size.

No. 2—GLENWOOD SPECIAL*; Weights 12, 12½, 13, 13½, 14, 14½ and 15 ozs.....Each, $0.00



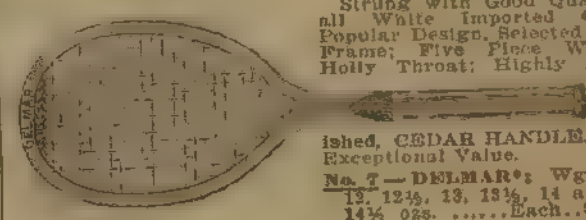
Strung with all White Imported Gut; Oval Frame, made of Selected Ash, Five Piece Mahogany Throat; CEDAR HANDLE, Small Size.

No. 2—EXPERT*; Weights 12, 12½, 13, 13½, 14, 14½ and 15 ozs.....Each $3.00



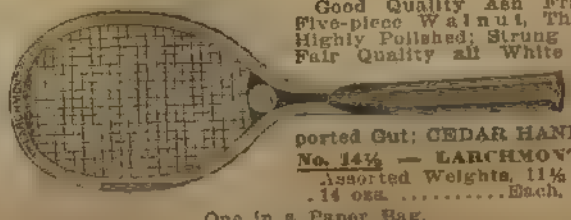
Popular Design; Selected Ash Frame; Five-piece Reinforced Walnut Throat, Highly Polished; Strung with Good Quality all White Imported Gut; CEDAR HANDLE; The Best Ladies' and Children's Racket made.

No. C—INGLESYDE*; Weights: 12, 12½, 13, 14, 14½ and 15 ozs.....Each, $4.00



Strung with Good Quality all White Imported Gut, Popular Design, Selected Ash Frame; Five Piece White Holly Throat; Highly Polished, CEDAR HANDLE. An Exceptional Value.

No. 7—DELMAR*; Wgts. 12, 12½, 13, 13½, 14 and 14½ ozs.....Each..$3.00



Good Quality Ash Frame; Five-piece Walnut, Throat, Highly Polished; Strung with Fair Quality all White Imported Gut; CEDAR HANDLE.

No. 14½—LARCHMONT*; Assorted Weights, 11½ to 14 ozs.....Each, $2.75

One in a Paper Bag.

LAWN TENNIS RACKETS.

SIMMONS AMERICAN.

Each

No. 16—ROYAL*; Full Size; Strung with Good Quality Oriental Gut; Ash Frame; Five-piece Walnut Throat CEDAR HANDLE; Carried in 13 oz. only.....$2.00

No. 17—PICNIC* Strung with Fair Quality Imported Gut; Ash Frame; One Piece Throat; CEDAR HANDLE; Carried in 8 oz. only. Not Guaranteed 1.50

One in a Paper Bag.

‡ RESTRINGING RACKETS.

‡ Best English Gut	Each	$3.00
‡ Best American Gut	Each	4.00
‡ Oriental Gut	Each	3.00

All of our Rackets are restrung by experts, but we do not guarantee either the Rackets or the strings, when we undertake to restring a Racket

LAWN TENNIS SETS.

Per Set

No. 9—TOURNAMENT Set, Contains Two No. 0 C and [illegible] No. 0 Racket; One No. 3E Net; Six No. [illegible] CHAMPIONSHIP BALLS; [illegible] Posts; [illegible] Runners and Pegs; [illegible] Mallet; [illegible] Book of Rules; Complete Set Packed in Varnished Oak Box; Weight per set about 38 lbs. $70.00

No. 6—EXPERT Set; Contains Four No. 01 Rackets, One No. 3E Net; Four No. HM CHAMPIONSHIP BALLS, One Pair No. 11 Poles, One Set Guy Ropes, Runners and Pegs, One Mallet, One Book of Rules, Packed in Varnished Oak Box; Weight per set about 33 lbs. 55.00

No. 5—PROFESSIONAL Set; Contains Four No. 3 Rackets, One No. 3E Net, Four No. 1 WORLD'S CHAMPIONSHIP BALLS; One Pair No. 10 Poles; One Set Guy Ropes, Runners and Pegs; One Mallet; One Book of Rules; Packed in Varnished Oak Box, Weight per set about 32 lbs. 44.00

No. 4—AMATEUR Set; Contains Four No. 6 Rackets; One No. 10 Net; Four No. 1 WORLD'S CHAMPIONSHIP BALLS, One Pair No. 10 Poles, One Set Guy Ropes, Runners and Pegs, One Mallet; One Book of Rules; Packed in Varnished Oak Box; Weight per set about 30 lbs. 38.00

No. 3—PRACTICE Set; Contains Four No. 7 Rackets; One No. 1 Net; Three No. 10 COUNTRY CLUB BALLS, One Pair No. 10 Poles; One Set Guy Ropes, Runners and Pegs; One Mallet; One Book of Rules; Packed in Plain Poplar Box; Weight per set about 26 lbs. 31.00

No. 2—ECLIPSE Set; Contains Four No. 14½ Rackets; One No. 1 Net; Three No. 10 COUNTRY CLUB BALLS; One Pair No. 10 Poles; One Set Guy Ropes, Runners and Pegs; One Mallet; One Book of Rules Packed in Plain Poplar Box; Weight per set about 26 lbs. 22.00

Dimensions of Boxes for Sets, 34 inches Long, 13 inches Wide, 8 inches deep. One Set in a Wood Box.

LAWN TENNIS BALLS.

Made of Special Selected Highest Grade Rubber, Covered with Extra Fine Quality Felt, Undersewn and Cemented; the Toughest, Hardest and Liveliest Tennis Ball made, and will stand more Punishment than any other; Meets the Requirements of Tournament and Expert Players.

Per Dozen

No. HM—HANDMADE CHAMPIONSHIP; Wrapped in Tissue Paper and Sealed; This Ball was Adopted by the National Lawn Tennis Association and Guaranteed to be Regulation Size and Weight $9.00

High Quality Rubber, with Good Grade Felt Cover, Undersewn and Cemented; A Substantial, Carefully Made Ball.

Per Dozen

No. 1—WORLD'S CHAMPIONSHIP*; Conforms to the Rules of National Lawn Tennis Association and is Guaranteed to be Satisfactory.. $8.00

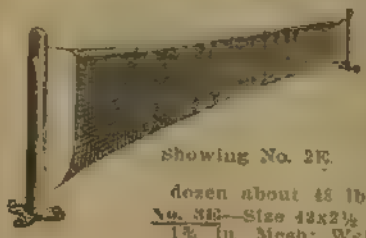
Good Quality Rubber, with Felt Cover, Cemented; will withstand the Hard Usage of Amateur Play; Conforms to Rules of National Lawn Tennis Association in regard to Size and Weight.

Per Dozen

No. 10—COUNTRY CLUB* $1.50

One Dozen in a Cardboard Box. Weight per Dozen about 30 ozs.

LAWN TENNIS NETS.



Showing No. 2E.

THE INTER-COLLEGIATE CANVAS BOUND NET. Only; With Cotton Rope to Hang, White, Hand Made

Per Doze.

No. 2E—Size 36x2½ ft; 21 Thread Twine; 1¾ in Mesh; Weight per dozen about 48 lbs $90.00

No. 3E—Size 42x2½ ft; 21 Thread Twine 1¾ in Mesh; Weight per dozen about 54 lbs..... 96.00

Unlike other Canvas Bound Nets, the Netting is attached to the Bottom of the Canvas. The Rope, entirely Separate from the Netting, passes through the Canvas and thus receives all the Strain from the Stretching of the Net, so that neither the Netting nor Canvas can be broken or pulled out of shape

The wide strip of Canvas on these Nets hangs perfectly smooth. Not necessary to use Net Forks

DOUBLE CENTER, CANVAS BOUND ON TOP. White, Hand Made.

Per Dozen

No. 15—Size 42x3 ft.; 21 Thread Twine; 1¾ in. Mesh; Weight per dozen about 66 lbs..... $82.00

No. 25—Size 36x3 ft.; 21 Thread Twine, 1¾ in. Mesh Weight per dozen about 54 lbs..... 66.00

CANVAS BOUND ON TOP; GOOD QUALITY; WHITE, with Cotton Ropes to Hang; 1¾ in Mesh

HAND MADE.

Per Dozen

No. 35—Size 42x3 ft.; 21 Thread Twine; Weight per dozen about 54 lbs..... $60.00

No. 45—Size 36x3 ft.; 21 Thread Twine; Weight per dozen about 45 lbs..... 54.00

MACHINE MADE.

Per Dozen

No. 10—Size 42x3 ft; 15 Thread Twine; Weight per dozen about 36 lbs.. ..... $42.00

No. 20—Size 36x3 ft; 15 Thread Twine, Weight per dozen about 30 lbs..... 36.00

UNBOUND NETS; MACHINE MADE; WHITE, with Cotton Ropes to Hang; 1¾ in. Mesh

Nos.	1	2	3	4
Size, feet	42x3	36x3	33x3	27x3
Twine, Threads	15	15	15	12
Weight per dozen, lbs.	36	27	24	15
Per dozen	$32.00	27.00	27.00	18.50

BACK STOP NETS.

Per Dozen

No. 5—UNBOUND; Size 50x7 ft.; 9 Thread Twine, 1¾ in. Mesh; Weight per dozen about 54 lbs..... $40.00

One-twelfth Dozen in a Cardboard B[illegible]

FOOT BALLS.

LEATHER.

RUGBY OR OVAL SHAPE.

No. 210.

Highest Grade Imported English Pebble Grain Leather, Tan Color, Sewed on Lock Stitch Machine with Heavy Waxed Linen Thread; Each Section of Leather is Thoroughly Stretched by a Special Process and the Ball is Guaranteed to Retain its Shape. Guaranteed without Restrictions as to Material and Workmanship. Has Special Patented Inside Lacing, which Affords Extra Protection to the Bladder and makes Outside Surface of Ball Perfectly Smooth. Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace.

No. 210—SIMMONS AMERICAN OFFICIAL INTER-COLLEGIATE*; Absolutely Official in Size and Weight and Positively Correct in Shape; Weight per dozen about 17 lbs. ..... Per Dozen, **$90.00**

Special Selected Imported English Foot Ball Leather, Tan Color Sewed on Lock Stitch Machine with Heavy Waxed Linen Thread; Guaranteed to Retain its Shape and to be Perfect as to Material and Workmanship. Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace.

No. 200—SIMMONS AMERICAN INTER-COLLEGIATE*; REGULATION SIZE; Weight per dozen about 15 lbs. ..... Per Dozen, **$78.00**

Extra Fine Selected American Pebble Grain Leather, Lock Stitched; Guaranteed Perfect in Shape, Material and Workmanship; Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace.

No. 12—SIMMONS AMERICAN SCHOLASTIC*; REGULATION SIZE; Weight per dozen about 15 lbs. Per Dozen. . **$72.00**

Selected American Pebble Grain Leather; Tan Color, Guaranteed Perfect in Shape; Complete with Good Rubber Bladder and Leather Lace.

No. 11—SIMMONS AMERICAN OFFICIAL ACADEMIC*; REGULATION SIZE; Weight per dozen about 13 lbs. Per Dozen **$60.00**

Fine Pebbled Leather, Tan Color; Canvas Lined; Wax Thread Stitched, Double Stitched Around Opening, Warranted to Retain its Shape, Complete with Good Rubber Bladder and String Lace

No. 110—SIMMONS AMERICAN ACADEMIC*; REGULATION SIZE; Weight per dozen about 10 lbs Per Dozen **$27.00**

Good Quality Pebbled Leather, Tan Color; Canvas Lined, Well Stitched Throughout; Double Stitched around Opening, Complete with Good Rubber Bladder and String Lace

No. 120—SIMMONS AMERICAN AMATEUR*; REGULAR SIZE, Weight per dozen about 8 lbs...Per Dozen, **$21.60**

Good Quality Pebbled Leather, Tan Color; Canvas Lined; Well Stitched Throughout; Complete with Good Rubber Bladder and String Lace

No. 130—SIMMONS AMERICAN SPECIAL*; BOYS' SIZE; Weight per dozen about 7 lbs. ..... Per Dozen, **$18.00**

One-twelfth Dozen in a Cardboard Box.

RUGBY FOOT BALL BLADDERS.

Per Dozen

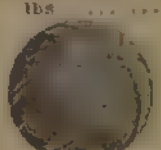
No. 4R—COMPOSITION, TWO PIECE BLADDER, Suitable for Nos. 130 and 120 Balls; Weight per dozen about 2 lbs. **$9.00**

No. 5R—PURE GUM, TWO PIECE BLADDER; Suitable for Nos. 110, 12 and 11 Balls; Weight per dozen about 1½ lbs **12.50**

No. 6R—PURE GUM, FOUR PIECE BLADDER; Suitable for No. 200 Balls; Weight per dozen about 1⅝ lbs **14.50**

No. 7R—PURE GUM, FOUR PIECE BLADDER, Heavy; Suitable for No. 210 Ball; Weight per dozen about 2½ lbs **16.00**

Packed Loose.



RUBBER FOOT BALLS.

RUBBER.

ASSOCIATION OR ROUND SHAPE.

BLACK.

Nos.	1	2	3	4	5	6
Circumference, in...	18	21	24	27	30	33
Wgt. doz. abt. lbs.	3¼	4¼	5¼	7	8½	10¾
Per dozen	$8.00	10.00	11.50	13.00	15.00	16.50

Packed Loose.

Per Dozen

Extra Keys, for Rubber Foot Balls; Weight per dozen $0.10

Extra Valves, for Rubber Foot Balls; Weight per dozen ..... .50

Packed Loose

FOOT BALLS.

LEATHER.

GAELIC OR ROUND SHAPE.

No. A113

Finest Quality English Pebble Grain Leather in Seven Sections, with Button Ends, Tan Color; Hand Stitched Throughout; Guaranteed Absolutely Perfect in Shape, Material and Workmanship; Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace. Per Dozen

No. A113—SIMMONS AMERICAN OFFICIAL GAELIC*; REGULATION SIZE; Wgt. per doz. abt. 16 lbs. . **$96.00**

ASSOCIATION OR ROUND SHAP

Highest Quality Imported English Grain Foot Ball Leather, Tan Color, Hand Stitched Throughout. Each Section of the Leather is Stretched by a Special Process; will Positively Retain its Shape Indefinitely. Absolutely Official in Every Respect; Guaranteed Perfect as to Material and Workmanship. Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace. Per Dozen

No. A112—SIMMONS AMERICAN OFFICIAL ASSOCIATION*; REGULATION SIZE AND WEIGHT; Weight per dozen about 18 lbs. **$108.00**

Finest Quality American Pebbled Grain Foot Ball Leather, Tan Color; Canvas Lined, Hand Stitched Throughout; Guaranteed to be Perfect in Shape, Material and Workmanship; Complete with Pure Gum Bladder, Inflater, Lacing Needle and Leather Lace. Per Dozen

No. A114—SIMMONS AMERICAN COLLEGIATE*; REGULATION SIZE, Weight per dozen about 17 lbs. . . . **$72.00**

Finest Quality American Pebbled Grain Foot Ball Leather Tan Color; Canvas Lined; Hand Stitched Throughout; Guaranteed to be Perfect in Shape, Material and Workmanship; Complete with Inflater, Pure Gum Bladder and Leather Lace. Per Dozen

No. A115—SIMMONS AMERICAN SCHOLASTIC*; REGULATION SIZE; Weight per dozen about 15 lbs. . . . **$54.00**

Good Quality Pebble Grained Leather, Tan Color; Canvas Lined with Drill; Well Stitched Throughout; Complete with Good Rubber Bladder and Cord Lace. Per Dozen

No. A116—SIMMONS AMERICAN HIGH SCHOOL*; REGULATION SIZE; Weight per dozen about 12 lbs. . . . **$36.00**

Good Quality Foot Ball Leather, Tan Color; Canvas Lined, Strongly Stitched Throughout; Complete with Good Rubber Bladder and Cord Lace. Per Dozen

No. A117—SIMMONS AMERICAN AMATEUR*; REGULATION SIZE; Weight per dozen about 11 lbs. **$27.60**

Strong Pebble Grained Leather, Tan Color; Canvas Lined, Well Stitched Throughout; Complete with Good Rubber Bladder and Cord Lace. Per Dozen

No. A119—SIMMONS AMERICAN SPECIAL*; REGULATION SIZE, Weight per dozen about 10 lbs. **$24.00**

One-twelfth Dozen in a Cardboard Box.

ASSOCIATION FOOT BALL BLADDERS.

Per Dozen

No. 4A—Composition, Four Piece Bladder; Suitable for Nos. A113, A117 and A116 Balls; Weight per dozen about 3 lbs. **$10.80**

No. 5A—Pure Gum, Four Piece Bladder, Suitable for Nos. A115, A114 and A113 Balls; Weight per dozen about 2 lbs **16.00**

No. 6A—Pure Gum, Four Piece Bladder; Heavy; Suitable for No. A112 Ball, Wgt. per doz about 3½ lbs.. **20.00**

Packed Loose

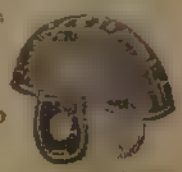
FOOT BALL GOODS.

HEAD HARNESS.

SIMMONS AMERICAN*. Per Dozen

No. 30—SKELETON STYLE; [illegible] Padded with Good Felt; Elastic Neck Band. Wgt. per dozen about 6 lbs. . **$10.00**

No. 40—SKELETON STYLE; [illegible] BLACK LEATHER; Padded with Good Quality Gray Felt; Elastic Neck . . . Weight per dozen about 8 lbs. **$25.00**



Per Dozen

No. 35—HELMET STYLE; FINE [illegible] KHAKI SIDES [illegible] Padded Ear Protectors Well Padded with Gray Felt [illegible] Neck Band, Weight per dozen about 8 lbs **$27.00**

Per Dozen

No. 45—HELMET STYLE; [illegible] BLACK CALFSKIN; Padded with Best Quality White Wool Felt with Protectors to Back of Side Well Ventilated; Elastic Neck Band. Weight per dozen about 10 lbs. . **$54.00**

One-twelfth Dozen in a Cardboard Box

FOOT BALL GOODS.

FOOT BALL GOODS.

UNION SUITS.

SIMMONS AMERICANA.

Padded Jersey with Elastic Ribbed Waist, Padded Hips and Knees, Padded Kidney and Thigh Guards; Detachable Sleeves and Knee Pads; Laced Front Elastic Bottoms.

	Per Dozen
No. C 20—BEST QUALITY GOVERNMENT KHAKI	$65.00
No. C 40—HEAVY TAN DRILL	$52.00

Weight per Dozen Suits about 40 lbs.

Note—When ordering Union Suits give Chest and Waist measurements and length from back of neck to crotch.

SHOES.

BOYS'

Sizes 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½ and 10

Wide Toe Model or Latest Improved Last; Princeton Cleats, Cleats Sole Leather Built up; Ankle Pads, Oak Tanned Sole.

	Per Pair
No. F 10—SELECTED BLACK KANGAROO CALF, Goodyear Welt	$7.50
No. F 20—SELECTED BLACK KANGAROO CALF, LEATHER Model, Goodyear Welt	$9.00

One Pair in Cardboard Box, Weight per Pair about 2 lbs

FOOT BALL PANTS.

	Per Dozen Pairs
No. P1—BEST QUALITY GOVERNMENT KHAKI; Made in the Best Manner Throughout; Cane Thigh Guards; Removable Hip Pads; The Best Pants Obtainable	$52.00
No. 2K—ARMY KHAKI CLOTH, Quilted Padded Hips and Knees; Patent Knee Pads; Cane Thigh Guards	$40.00
No. P2—FINE QUALITY TAN DUCK; Padded Hips and Knees; Cane Thigh Guards; Elastic Bottoms	$30.00
No. P3—TAN DRILL; Padded Hips and Knees; Cane Thigh Guards	$24.00
No. P4—BOYS' TAN DRILL; Padded Hips and Knees; Cane Thigh Guards	$13.00

Weight per Dozen Pairs about 21 lbs
One-twelfth Dozen in Paper Package

When ordering Foot Ball Pants State Following Measurements:

Around Waist at A
Outseam A to C, to 8 inches above knee
Inseam D to E, 6 to 8 inches below knee
Around Hips at B

STOCKINGS.

Sizes, 10 and 10½.

FINE ALL WORSTED YARN WHITE Feet, Full Fashioned, Heavy Ribbed

	Per Dozen Pairs
No. 5—Solid Colors Maroon, Navy Blue and Black	$21.00
No. 5/8—3 in Stripe around Calf Colors Maroon and White, Navy Blue and White	23.00

ALL WOOL YARN WITH WHITE COTTON FEET. Fine Ribbed, Medium Weight

	Per Dozen Pairs
No. 6—Solid Colors only Colors, Maroon, Navy Blue and Black	$14.50
No. 6/8—3 in. Stripe around Calf; Colors: Maroon with White Stripe, Navy Blue with White Stripe	15.00

HEAVY RIBBED COTTON WHITE FEET

	Per Dozen Pairs
No. 7—Solid Colors Maroon, Navy Blue and Black	$7.00
No. 7/8—3 in Stripe around Calf Colors Maroon and White and Navy Blue and White	$7.50

One Dozen Pairs in a Cardboard Box; Weight per Dozen

SHIN GUARDS.

Felt Lined, Best Cane Ribs; Leather Bound; Continuous Leather Straps with Tinned Buckles.

	Per Dozen Pairs
No. 3—12 IN. FINE QUALITY TAN LEATHER; Weight per dozen pairs about 12 lbs	$15.00
No. 5—12 IN. BEST QUALITY TAN KHAKI DUCK; Weight per dozen pairs about 10 lbs	13.50
No. 7—9 IN., BEST QUALITY TAN KHAKI DUCK; Weight per dozen pairs about 7 lbs	11.00

One-twelfth Dozen Pairs in a Paper Package.

NOSE MASKS AND MOUTH PIECES.

MORRILL'S Finest Hard Rubber, Elastic Straps ⅝ in. Wide, to Fasten Around Head. No Metal Used in its Construction

	Per Dozen
No. 1—[illegible]	$6.50
No. 1B—YOUTHS' SIZES, Weight [illegible]	$6.50

One-twelfth Dozen in Cardboard Box.

MOUTH PIECES.

No. 2—Made of Pure Quality Hard Rubber, Fits Over Front Teeth, Perfect Protection to the Mouth and Teeth. Weight per Dozen about 2 lb. Per Dozen $6.00

One Dozen in a Cardboard Box

INFLATERS.

Nickel Plated Cylinder, 2½x1¾ in. Extreme Length Closed [illegible]

	Per Dozen
No. 2—CLUB; Weight per dozen about 7½ lbs	$7.00

Nickel Plated Cylinder 6x⅞ in. Extreme Length Closed [illegible]

	Per Dozen
No. 3—POCKET, Weight per dozen about 2 lbs	$4.00

One Dozen in a Cardboard Box.

ELBOW PADS.

	Per Dozen Pairs
No. 11—Soft Tan Leather Padded Elbow, Felt Lined, To Sew to Jersey; Weight per dozen pairs about 3 lbs	$13.00

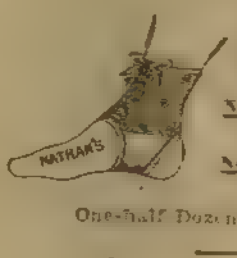
Packed Loose

SHOULDER PADS.

	Per Dozen Pairs
No. 1—Soft Tan Leather Padded Shoulder Cap, Felt Lined, To Sew to Jersey; Weight per dozen pairs about 3 lbs	$13.00

Packed Loose

ANKLE SUPPORTERS.



NATHAN'S Ventilating Quick Ankle Support, Soft Tan Leather Just the thing for all Athletic Sports as well as for a man who has Weak Ankles

	Per Dozen Pair
No. 4M—MENS SIZES, Assorted, 8, 8½, 9, 9½, 10 and 11, Weight per dozen about 7 lbs	$17.00
No. 4L—FOR LADIES, Sizes Assorted, 2, 2½, 3, 3½, 4, 4½, 5 and 6, Weight per dozen about 2½ lbs.	$17.00

One-half Dozen Pairs in a Cardboard Box

PLAIN SOFT BLACK LEATHER.

	Per Dozen Pairs
No. 3M—MENS SIZES, Assorted, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10 and 11, Weight per dozen about 2¾ lbs	$9.50

One-twelfth Dozen Pairs in a Carton. One Dozen Pairs in a Cardboard Box

OFFICE CLOCKS

LEVER AND PENDULUM

NICKEL LEVER

8 Day Time; Round Brass Case, Nickel Plated; Glass Door; Roman Numerals; Second Hand.

Each

No. 68N—6 inch Dial..... $6 00

One in a Cardboard Box; Twelve in a Case; Case Weighs 62 lbs.

(Made by Ansonia Clock Co.)

ANSONIA LEVER

8 Day Time; Octagon Oak Case, Golden Finish; Glass Door; Roman Numerals; Second Hand.

Each

No. 68A—6 inch Dial..... $6 00

One in a Cardboard Box; Twelve in a Case. Case Weighs 62 lbs.

(Made by Ansonia Clock Co.)

CABLE LEVER

8 Day Time; Round Cable Oak Case, Golden Finish; Glass Door; Roman Numerals; Second Hand.

Each

No. 68C—6 inch Dial..... $6 00

One in a Cardboard Box; Twelve in a Case. Case Weighs 62 lbs.

(Made by Ansonia Clock Co.)

ANSONIA LEVER

8 Day Time; Octagon Oak Case, Golden Finish; Glass Door; Roman Numerals; Second Hand.

Each

No. 88A—8 inch Dial..... $7 15

One in a Cardboard Box; Six in a Case; Case Weighs 49 lbs.

(Made by Ansonia Clock Co.)

GRESHAM PENDULUM

8 Day Time, Round Oak Polished Veneer Case, Golden Finish; Glass Door; Roman Numerals; Without Second Hand.

Each

No. G12—12 inch Dial..... $7 70

One in a Box; Six in a Case; Case Weighs 84 lbs

Made by Ansonia Clock Co.)

LIBRARY LAMPS.

Complete with Hangers, 3 in. Smoke Bells, No. 2 Success Center Draft Lift-out Oil Pot with Burners, No. 1 Liberty Wick, No. 1-L 10¾ in. Chimneys and 14 in. Dome Shades.

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed, 34 in., Extended, 70 in.

No. 1007—Pink and Opal Blended Background, with Lilacs and Green Leaves; Vase to Match. Each, ... $7.00

Weight Each about 35 lbs.

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension Length from Bottom of Pull to Top of Hanger, Closed, 42 in.; Extended, 80 in.; With 28 3 in. Glass Prisms.

No. 1008—Pink and Opal Blended Background, with Two Large Red Japan Lilies and Green Leaves; Vase to Match. Each, ... $11.50

Weight Each about 45 lbs.

One Complete Lamp in a Wood Box.

HIGH GRADE LIBRARY LAMPS.

EXTRA HEAVY.

Latest Mission Design, Heavy Art Glass, Center Draft Fount, Spring Extension.

Complete with Improved Automatic Spring Extension; Heavy Brass Chains; 3 in. Smoke Bell, No. 2 Success Center Draft Lift-out Fount, with Burner; No. 1 Liberty Round Wick, No. 1-L 10¾ in. Chimney and 14 in. Octagon Shade, Fount Support Connected to Sides of Shade and Fastened with Brass Thumb Nuts.

6x1¼ in. Evener. Length from Bottom of Pull to Top of Hanger, Closed, 40 in., Extended, 78 in.

No. 1012—Amber Opalescent Art Glass Panels, Brass Trimmings, Satin Finish. . . Each, $11.00

Length from Bottom of Pull to Top of Hanger, Closed, 32 in.; Extended, 54 in.

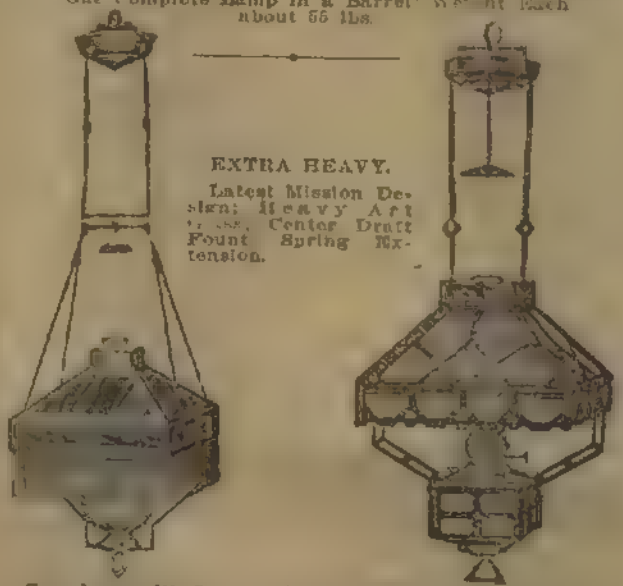
No. 1013—Green Opalescent Art Glass Panels in Shade and Amber Opalescent Art Glass in Apron; Cast Metal Parts Dead Black Wrought Iron Finish. Each, ... $16.00

One Complete Lamp in a Barrel; Weight Each about 55 lbs.

Complete with Hangers, 3 in. Smoke Bells, No. 2 Success Center Draft Lift-out Oil Pot with Burners, No. 1 Liberty Wick, No. 1-L 10¾ in. Chimneys, 14 in. Dome Shades [illegible] Brass Finish [illegible] Length from Bottom of Pull to Top of Hanger, Closed, 40 in., Extended, 78 in.

No. 1009 Brown Tar Tone Cottage and Green Mosaic [illegible] Shade; [illegible] Glass Beads, ... Each, $5.00

One Complete Lamp in a Barrel; Weight Each about 50 lbs.



EXTRA HEAVY.

Latest Mission Design; Heavy Art Glass, Center Draft Fount Spring Extension.

Complete, with Improved Automatic Spring Extension Heavy Brass Chains; 3 in. Smoke Bell, No. 2 Success Center Draft Lift-out Fount with Burner; No. 1 Liberty Round Wick, No. 1-L 10¾ in. Chimney; Fount Support Connected to Sides of Shade and Fastened with Brass Thumb Nuts.

12 in. Square Shade, 6x1¼ in. Evener. Length from Bottom of Pull to Top of Hanger, Closed, 40 in., Extended, 78 in.

No. 1010—Green and Opal Blended Art Glass Panels, with 4¼ in. Green Glass Beads; Brass Trimmings, Satin Finish. . . . . Each, $16.50

14 in. Square Shade; Length from Bottom of Pull to Top of Hanger, Closed, 32 in.; Extended, 54 in.

No. 1011—Amber Opalescent Art Glass Panels in Shade, and Green Art Glass in 3½ in. Apron; Cast Metal Parts Dead Black Wrought Iron Finish. Each, ... $16.00

One Complete Lamp in a Barrel; Weight Each about 50 lbs.

WE MAKE NO CHARGE FOR PACKING.

WE MAKE NO CHARGE FOR PACKING.

LIBRARY LAMPS.

Complete with Hangers, 3 in. Smoke Bells; No. 111 Crystal Founts; No. 2E Sun Burners; No. 2BT Chimneys and 14 in. Shades.

Brass Trimmings, Gilt Finish; Weight Extension; Length from Bottom of Pull to Top of Hanger, Closed, 42 in.; Extended, 58 in.

No. 1900/C—With No 1214 Decorated Dome Shade; Each. $4.50

No. 1900—With No. 614 White Dome Shade; Each. $4.00

Weight Each about 35 lbs.

Brass Trimmings, Gilt Finish; Weight Extension; Length from Bottom of Pull to Top of Hanger, Closed, 30 in.; Extended 52 in.

No. 1901/C—With No 1214 Decorated Dome Shade Each. $5.00

No. 1901—With No. 614 White Dome Shade; Each. $4.50

Weight Each about 30 lbs.

One Complete Lamp in a Wood Box.

LIBRARY LAMPS.

Complete with Hangers, 3 in. Smoke Bells, Founts, No. 3/OS Burners, No. 2BT Chimneys and 14 in. Dome Shade.

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed, 30 in.; Extended, 66 in.

Each

No. 1904—Robin Egg Blue ... ground, with Stag and Hounds; Shade and Fount to Match. $5.20

Weight Each about 30 lbs.

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed, 36 in.; Extended, 78 in.

Each

No. 1905—With 28 3 in. Glass Prisms; Pink, Ecru, and Green Blended Background, Large Red and Yellow Roses and Green Leaves; Shade and Fount to Match. $8.20

Weight Each about 35 lbs.

One Complete Lamp in a Wood Box.

Complete with Hangers, 3 in. Smoke Bells; No. 111 Crystal Founts, Sun Burners, No 2BT Chimneys; 28 Prisms and 14 in. Dome Shade.

Brass Trimmings, Gilt Finish; Weight Extension; Length from Bottom of Pull to Top of Hanger, Closed, 46 in.; Extended, 60 in.

No. 1902/C—With No 2E Burner and No 1214 Decorated Dome Shade, Each $6.30

No. 1902—With No 2E Burner and No 614 White Dome Shade; Each. $6.00

Weight Each about 40 lbs.

Brass Trimmings, Gilt Finish; Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed, 36 in., Extended, 60 in.

No. 1903/C—With No. 3/OS Burner and No. 1214 Decorated Dome Shade, Each. $7.20

No. 1903—With No. 3/OS Burner and No 614 White Dome Shade; Each. $7.00

Weight Each about 35 lbs.

One Complete Lamp in a Wood Box.

WE MAKE NO CHARGE FOR PACKING.

Complete with Hangers, 3 in. Smoke Bells, Founts, Burners, Chimneys and 14 in. Dome Shade

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed 37 in.; Extended, 74 in. With Opal Founts, No 3/OS Burners and No. 2BT Chimneys.

No. 1906P—With Pink and Opal Blended Background, with Wild Duck Decoration, and Fount to Match, 4½ in. Pink Glass Beads . . Each, $9.00

Brass Trimmings, Gilt Finish; Improved Automatic Spring Extension; Length from Bottom of Pull to Top of Hanger, Closed, 37 in.; Extended, 74 in.; With Opal Founts, No. 3/OS Burners and No. 2BT Chimneys.

No. 1906G—Green and Opal Blended Background, with Large White Peonies and Green Leaves, Fount to Match, 4½ in. Green Glass Beads Each, $9.00

One Complete Lamp in a Wood Box; Weight Each about 35 lbs.

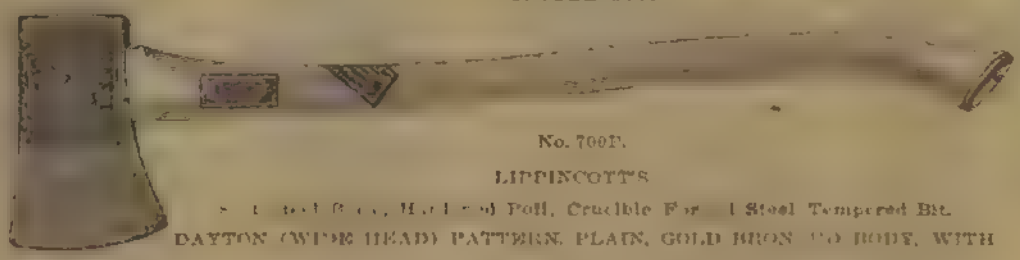
WE MAKE NO CHARGE FOR PACKING.

AXES.

SINGLE AND DOUBLE BIT

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle

SINGLE BIT.



No. 700P.

LIPPINCOTT'S

Soft Steel Body, Hardened Poll, Crucible Forged Steel Tempered Bit.

DAYTON (WEDGE HEAD) PATTERN, PLAIN, GOLD BRONZED BODY, WITH POLISHED HEAD AND BIT.

No. 700P—With Cumberland Octagon Handle No. CXXX

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Weight of Head, lbs	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$21.50	22.00	22.50

No. 700NN—With Lone Star Octagon Handle No. NN

Handled with Lone Star Extra Quality Hand Shaved Hickory Handle

Weight of Head, lbs.	3 to 4	3 to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$21.50	22.00	22.50

No. 700ES—With Standard Oval Handle No. S 1

Handled with Standard No. 1 Quality Machine Made Hickory Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$18.50	19.00	19.50

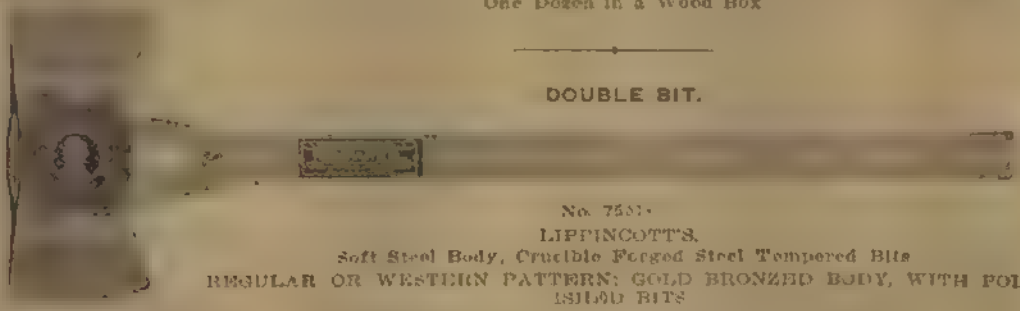
One Dozen in a Carton

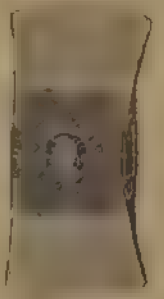
No. 700—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	55	60	65
Per dozen	$13.50	14.00	14.50

One Dozen in a Wood Box

DOUBLE BIT.





No. 750.

LIPPINCOTT'S.

Soft Steel Body, Crucible Forged Steel Tempered Bits

REGULAR OR WESTERN PATTERN; GOLD BRONZED BODY, WITH POLISHED BITS

No. 750DA—With Nonpareil Octagon Handle No. NDX30

Handled with Extra Select Nonpareil Grade Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	70	75	80
Per dozen	$25.00	25.00	28.50

No. 750DH—With Cumberland Oval Handle No. CDA

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	70	75	80
Per dozen	$25.00	25.50	28.00

No. 750DS—With Standard Oval Handle No. SDA.

Handled with Standard Excelsior Quality Machine Made Hickory Handle

Weight of Head, lbs.	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	70	75	80
Per dozen	$22.50	25.00	27.50

One Dozen in a Carton

No. 750—WITHOUT HANDLE

Weight each, lbs.	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	55	60	65
Per dozen	$18.50	19.00	19.50

One Dozen in a Wood Box

Weight of Single Bit Axes Stamped on the Poll, Double Bit Near the Eye.

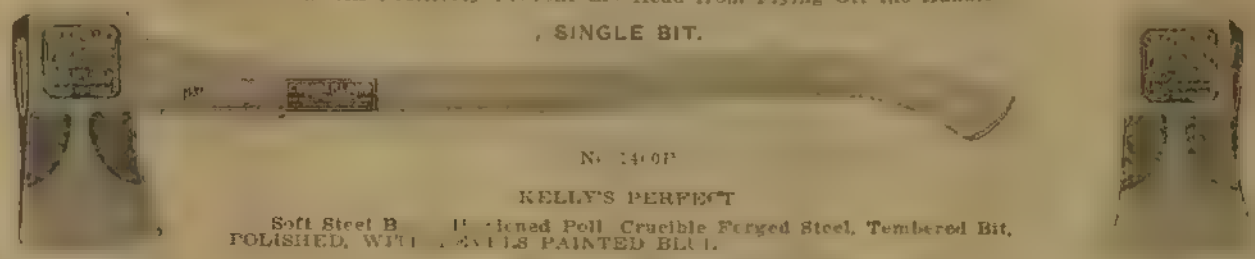
AXES.

SINGLE AND DOUBLE BIT

KELLY'S PERFECT

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle

SINGLE BIT.



No. 1400P

KELLY'S PERFECT

Soft Steel Body, Hardened Poll, Crucible Forged Steel, Tempered Bit, POLISHED, WITH BEVELS PAINTED BLUE.

DAYTON (WIDE HEAD) PATTERN, HOLLOW BEVEL.

No. 1400P—With Cumberland Octagon Handle No. CXXX.

Handled with Cumberland First Selection Hand Shaved Hickory Handle.

Wgt. of Head, lbs...	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Wgt. per doz. abt. lbs..	65	70	75	8
Per dozen	$22.50	23.40	25.50	21.00

No. 1400DD—With Minnesota Chief [illegible] No. MCXX.

Handled with Minnesota Chief Medium Selection Hand Made Hickory Handle.

Wgt. of Head, lbs.....	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Wgt. per doz. abt., lbs..	65	70	75	8
Per dozen	$21.00	21.50	22.00	[illegible]

One Dozen in a Crate.

No. 1400R—With Cumberland Octagon Hand [illegible] No. CXX.

Handled with Cumberland Th[illegible] Selection Hand Shaved Hickory Handle.

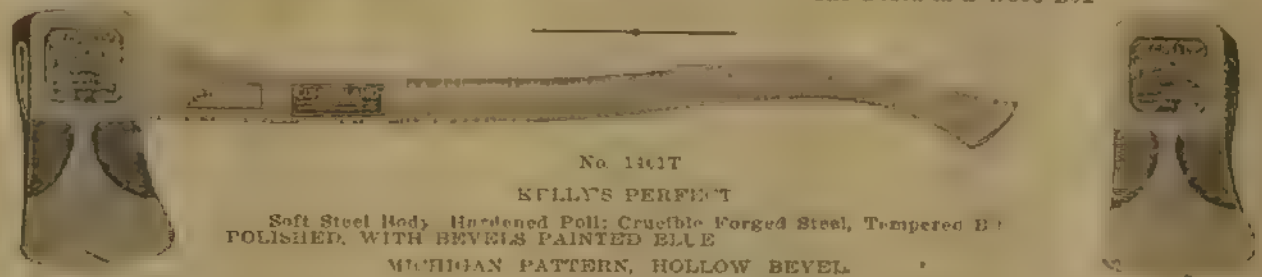
Wgt. of Head, lbs..	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Wgt. per doz abt lbs .				
Per dozen . .	$20.00	20.50	21.00	21.50

One Dozen in a Crate.

No. 1400—WITHOUT HANDLE.

Weight each, lbs.....	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Wgt. per doz. abt., lbs..	45	54	[illegible]	[illegible]
Per dozen	$14.50	15.00	15.50	16.00

One Dozen in a Wood Box



No. 1401T

KELLY'S PERFECT

Soft Steel Body, Hardened Poll; Crucible Forged Steel, Tempered Bit, POLISHED, WITH BEVELS PAINTED BLUE.

MICHIGAN PATTERN, HOLLOW BEVEL.

No. 1401 C—With Wyoming Oval Handle No. WR36.

Handled with Wyoming Select Hand Made Hickory Handle, Bastard Cut.

Weight of Head, lbs.....	3½ to 4½	4 to 5
Weight per dozen about, lbs.	72	78
Per dozen	[illegible]	21.00

No. 1401T—With Cumberland Oval Handle No. C[illegible]

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$21.00	21.50

One Dozen in a Crate.

No. 1401 L—With Standard Oval Handle No. S/I.

Handled with Standard No. 1 Quality Machine Made Hickory Handle.

Weight of Head, lbs.....	3½ to 4½	4 to 5
Weight per dozen about, lbs.....	70	75
Per dozen	$20.00	20.50

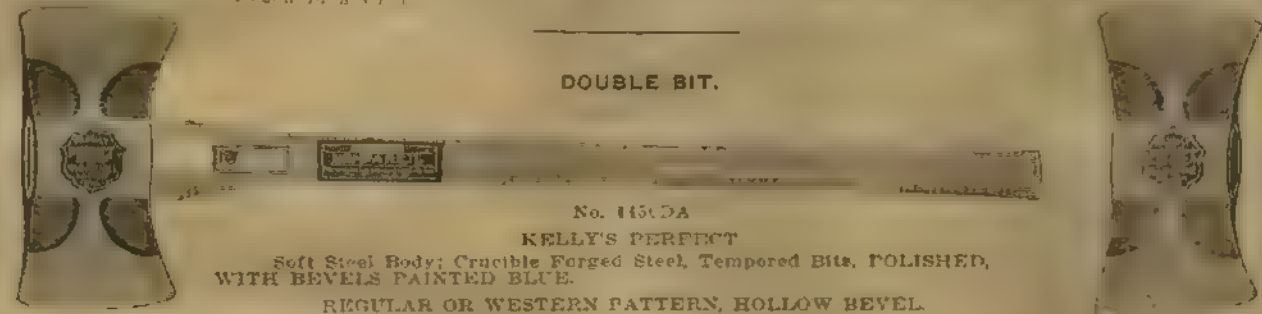
One Dozen in a Crate.

No. 1401—WITHOUT HANDLE.

Weight each, lbs.....	3½ to 4½	4 to 5
Weight per dozen about, lbs .	54	59
Per dozen	$15.00	15.50

One Dozen in a Wood Box

DOUBLE BIT.



No. 1450DA

KELLY'S PERFECT

Soft Steel Body; Crucible Forged Steel, Tempered Bits, POLISHED, WITH BEVELS PAINTED BLUE.

REGULAR OR WESTERN PATTERN, HOLLOW BEVEL.

No. 1450DA—With Nonpareil Octagon Handle No. NDX36.

Handled with Extra Select Nonpareil Grade Hand Made Handle, Bastard Cut.

Weight of Head, lbs . .	3¼ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs	70	75	80
Per dozen	$28.50	29.00	29.50

No. 1450DR—With Standard Oval Handle No. SDAA.

Handled with Standard Extra Quality Machine Made Hickory Handle.

Weight of Head, lbs.....	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	70	75	80
Per dozen	$26.50	27.00	27.50

One Dozen in a Crate.

No. 1450DL—With Blue Oak Oval Handle No. B2RDB.

Handled with Blue Oak Select Hand Shaved Oak Handle.

Weight of Head, lbs.....	3¼ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs....	70	75	80
Per dozen	$23.50	24.00	24.50

One Dozen in a Crate.

No. 1450—WITHOUT HANDLE.

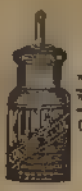
Weight each, lbs	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs....	54	59	[illegible]
Per dozen	$19.50	[illegible]	20.50

One Dozen in a Wood Box.

Weight of Single Bit Axes Stamped on the Poll, Double Bit Near the Eye.

LIQUID GLUE.

For Wood, Leather, Glass, Iron, Stone, Paper and Cloth.



KLINCHER*.

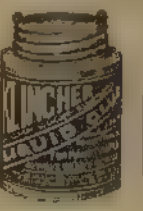
In Bottles, for Family Use, with Brush.

Per Dozen

No. 1Z—1 Ounce; Weight per doz. about 3 lbs. $1.50

No. 2Z—2 Ounce; Weight per doz. about 6 lbs. 2.30

One Dozen Bottles in a Cardboard Box; 1 oz. Twelve Dozen; 2 oz., Six Dozen in a Case.



KLINCHER*.

In Screw Top Tin Cans, with Brush, for Family Use.

Per Dozen

No. ½GL—½ Gill; Weight per dozen about 6 lbs. $2.30

No. 1GL—1 Gill; Weight per dozen about 8 lbs. $3.30

One Dozen in a Cardboard Box; Three Dozen in a Case.

KLINCHER*

In Screw Top Tin Cans, for Mechanics' Use.

Per Dozen

No. ½P—½ Pint; Weight per dozen about 10 lbs. ..... $ 4.70

No. 1P—1 Pint; Weight per dozen about 20 lbs. 7.30

No. 1Q—1 Quart; Weight per dozen about 40 lbs. 12.60

No. ½G—½ Gallon; Weight per dozen about 76 lbs. ..... [illegible]

No. 1G—1 Gallon; Weight per dozen about 144 lbs. 46.00

½ Pints, Two Dozen; Pints and Quarts, One Dozen; ½ and 1 Gallon, One-half Dozen in a Case.

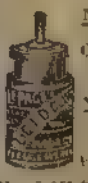
KLINCHER*.

Per Case

No. AC—Assorted Case; Contents: Two Dozen 1 oz. Bottles, One dozen ½ Gill Cans; One Display Stand 8 in. High, 7 in. Long, 6 in. Wide, and Advertising Cards. $5.60

Weight per Case about 12 lbs

No. 1JZ



No. 2JZ

LE PAGE'S.

IN BOTTLES, for family use, with Brush.

Per Dozen

No. 1JZ—1 oz.; Weight per doz. about 3 lbs. $1.07 1.80

One Doz. in a Cardboard Display Box, 6¾ in Wide 8¾ in Long and 1¾ in. High

No. 2JZ—2 oz.; Weight per doz. about 6 lbs. $1.65 2.70

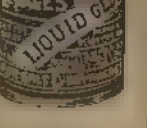
One Doz. Bottles in a Cardboard Box, 1 oz., Twelve Doz.; 2 oz., Six Doz. in a Case.

LE PAGE'S.

IN TIN CANS, for Family Use.

No. ½JGL—½ Gill; Weight per dozen about 4 lbs. ..... Per Dozen, $1.65 2.70

No. 1JGL—1 Gill; Weight per dozen about 8 lbs. ..... Per Dozen, $2.20



One Dozen in a Cardboard Box; Three Dozen in a Case

LE PAGE'S.

IN TIN CANS, for Mechanics' Use.

Per Dozen

No. ½JP—½ Pint; Weight per dozen about 20 lbs. $3.25 $5.20

No. 1JP—1 Pint; Weight per dozen about 32 lbs. $5.40 $8.70

No. 1JQ—1 Quart; Weight per dozen about 64 lbs. $9.50 $15.20

No. ½JG. ½ Gallon; Weight per dozen about 76 lbs. $18.50 $29.60

No. 1JG—1 Gallon; Weight per dozen about 144 lbs $36.00 57.60

½ Pints, Two Dozen; Pints and Quarts, One Dozen; Half and One Gallon, One-half Dozen in a Case

LIQUID GLUE.

For Wood, Leather, Glass, Iron, Stone, Paper and Cloth.

LE PAGE'S

DISPLAY STAND IN CASE.

Le Page's, Assorted Cases.

Per Case

No. LAC—Assorted Case. Contents: Two Dozen 1 oz. Bottles, One Dozen ½ Gill Cans, One Display Stand, 11x7¼x6 in., and Advertising Cards. $3.75 6.00

Weight per Case about 12 lbs

LE PAGE'S "READY-FOR-USE" SELF-SEALING TUBES.

Per Dozen

No. R—"READY-FOR-USE," Le Page's Liquid Glue $1.80

One-twelfth Dozen in Carton; Two Dozen Cartons in a Cardboard Box, with Handsome Show Card, 7⅝x6⅝ in.; One Gross in a Case.

Weight per Dozen 1½ lbs.

MUCILAGE.

LE PAGE'S GOLD MEDAL

Per Dozen

No. LM—Mucilage, 2 oz. Cone Bottles, with Cap and Brush. $0.90

One Dozen in a Case; Six Dozen in a Rack

Weight per Dozen about 5 lbs.

FLINT PAPER.

*KEEN KUTTER**

Highest Grade Fibre Paper with Highest Grade Glue and Sifted Quartz Coating, Carefully Gauged, Seasoned and Tested.

*KEEN KUTTER** FLINT PAPER, IN REAMS of 20 Quires (480 Sheets), ¼ Ream in a Package; Sheets, 9x11 in.

In Reams.

Nos.	KF00	KF0	KF½	KF1	KF1½
Reams in a bundle	5	5	5	4	3
Weight ream abt., lbs.	15	17	23	23	[illegible]
Per ream	$6.80	[illegible]	6.80	7.30	7.90

Nos.	KF2	KF2½	KF3	Assorted KFA
Reams in a bundle	3	3	2	3
Weight per ream about, lbs.	37	43	55	34
Per ream	$8.40	9.00	10.30	7.90

EMERY PAPER.

*KEEN KUTTER**

With Highest Grade Glue and Best Imported Emery Coating, Carefully Gauged, Seasoned and Tested.

*KEEN KUTTER** EMERY PAPER, IN REAMS of 20 Quires (480 Sheets), one Quire in a Package; ¼ Ream in a Bundle, Sheets, 9x11 in.

Nos.	KE00	KE0	KE½	KE1
Reams in a bundle	5	5	5	3
Weight per ream about, lbs.	18	24	28	28
Per ream	$11.50	11.10	11.10	13.00

Nos.	KE1½	KE2	Assorted KEA
Reams in a bundle	3	2	3
Weight per ream about, lbs.	35	38	25
Per Ream	$13.80	14.60	13.80

EMERY CLOTH.

*KEEN KUTTER**

With Highest Grade Glue and Best Imported Emery Coating, Carefully Gauged, Seasoned and Tested.

*KEEN KUTTER** EMERY CLOTH, IN REAMS of 20 Quires (480 Sheets), one Quire in a Package; ¼ Ream in a Bundle; Sheets, 9x11 in

(Crocus)

Nos.	KCC	KC00	KC0	KC[illegible]
Reams in a bundle	2½	2½	2½	[illegible]
Weight per ream about, lbs.	[illegible]	[illegible]	[illegible]	[illegible]
Per ream	$28.70	28.70	28.70	28.70

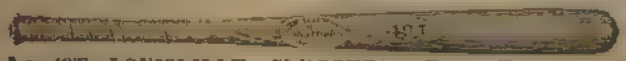
Nos.	KC1	KC1½	KC2
Reams in a bundle	2	2	2
Weight per ream about, lbs.	44	47	51
Per ream	$30.80	32.20	33.50

BASE BALL BATS.

LOUISVILLE SLUGGER*.

Hand Turned, Finest Quality Second Growth Straight Grained Ash, Perfectly Balanced; Assorted Lengths 32 to 40 in.; Assorted Weights 36 to 48 ounces and Assorted Models, The League Players' Bat.

No. 40H—**LOUISVILLE SLUGGER***; Burnished by Patent Process to Harden the Surface; Tape Wrapped. Per Dozen $16.00



No. 40T—**LOUISVILLE SLUGGER***; Tape Wrapped, Plain Finish; Not Burnished.....Per Dozen $15.00

No. 40—**LOUISVILLE SLUGGER***; Plain Finish. Not Tape Wrapped or Burnished..... .....Per Dozen, $14.50

One in a Paper Bag; Three Dozen in a Crate; Weight per Crate about 105 lbs.

Per Dozen

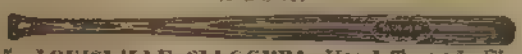
No. 43—**LOUISVILLE SLUGGER* FUNGO**; High Grade Second Growth Straight Grained Ash; Mottled Burned Finish; Shellaced and Highly Polished, Adapted Especially for Fungo Hitting, 35 to 38 in. Long..$13.00

One in a Paper Bag; Three Dozen in a Crate; Weight per Crate about 100 lbs.

No. 12—**LOUISVILLE YOUTHS' SLUGGER**; Burnished; Boys' Size.....Per Dozen, $4.00

One in a Paper Bag; Six Dozen in a Crate; Weight per Crate about 155 lbs.

INDOOR



No. 5—**LOUISVILLE SLUGGER***; Hand Turned, Finest Quality Second Growth Straight Grained Ash Mottled Finish; Length 33 in.; Weight per dozen about 15 lbs.....Per Dozen, $8.00

Packed Loose.

BAT BAGS.

SIMMONS AMERICAN*.

Made of Tan Color Duck, with Tan Color Leather Cap on End, Double Thickness Tan Pebble Leather Stitched Handle; To Buckle.

Each

No. 3—For Two Bats; Weight each about 6 ozs....$1.50

Each

No. 5—FOR TWO BATS, Made of Tan Color Duck, with Tan Pebble Leather Ends; Sewed and Riveted; Double Thickness Tan Pebble Leather Handle Stitched, Sewed and Riveted, Sewed and Riveted Strap and Buckle; Weight each about 18 ozs.....$2.00

No. 4—FOR TWO BATS; Made of Fine Quality Bag Leather; Flat Leather Handle; To Buckle; Weight each about 2 lbs..... 4.00

Made of Heavy Brown Canvas; Tan Pebble Leather Capped Ends; Flat Double Thickness Tan Pebble Leather Handles, Stitched, Sewed and Riveted; Sewed and Riveted Straps and Buckles.

Each

No. 12—FOR TWELVE BATS; Weight each about 2 lbs. $8.00

No. 6—FOR SIX BATS; Weight each about 1 lb.... 4.00

One in a Paper Package

BASE BALL GOODS.

UNIFORM ROLLS.

SIMMONS AMERICAN*.

Made of Heavy Tan Duck; Tan Leather Strap and Handle, Tan Drill Flaps on Inside to Protect Uniform; Separate Compartment for Shoes.

Each

No. 1—To hold One Complete Uniform. Weight each about 1½ lbs..... $4.00

ROYAL*.

Made of Extra Heavy Brown Duck; Leather Bound and Reinforced; Russet Leather Straps and Handle; Sage Green Khaki Cloth Flaps on Inside to Protect Uniform; Separate Compartment for Shoes.

No. 6—To hold One Complete Uniform; Weight each about 2 lbs.....Each, $5.00

One in a Paper Package

UMPIRE INDICATOR.

REACH

No. 1—Celluloid; Length 2 in.; Width 1¼ in.; Weight per dozen about 24 ozs.....Per Dozen, $9.00

One-twelfth Dozen in a Cardboard box.

SHOE PLATES.

Nos. 1, 2 and 6.

Nos. 1H, 2H and 6H

ROYAL*, Fine Quality Steel, Blued Finish Hand Forged.

	Per Dozen Pairs
No. 1—LEAGUE TOE PLATES	$7.00
No. 2—Professional TOE PLATES	3.50
No. 1H—LEAGUE HEEL PLATES	7.00
No. 2H—Professional HEEL PLATES	3.50

Good Quality Steel, Bright Finish.

No. 6—Amateur TOE PLATES	$1.20
No. 6H—Amateur HEEL PLATES	1.20

One Pair in an Envelope; One Dozen Pairs to a Cardboard Box; Weight per dozen Pairs about 20 ozs.

BASE BALL CAPS.

Usual Sizes: 6⅞, 6⅞, 7, 7⅛, 7¼, 7⅜.

PHILADELPHIA PATTERN

No. C/3—MEN'S; COTTON FLANNEL; Solid Colors: Navy Blue, Gray and Red. .....Per Dozen $2.30

No. C/4—MEN'S; GOOD QUALITY FLANNEL, LINED; Solid Colors; Navy Blue, Gray and Red .....Per Dozen, $3.80

PHILADELPHIA PATTERN

No. C/5—MEN'S; GOOD QUALITY FLANNEL; LINED; Six Pieces, Colors: Navy Blue, with White Braided Seams; Gray with Red Braided Seams; Red, with White Braided Seams.....Per Dozen $4.50

PHILADELPHIA PATTERN.

No. C/6—MEN'S; GOOD QUALITY FLANNEL Six Pieces; Leatherette Sweat Band; Made Strong and Durable Colors Navy Blue with White Braided Seams Gray with Red Braided Seams Red, with White Braided Seams .....Per Dozen $7.00

PHILADELPHIA PATTERN.

No. C/7—MEN'S; GOOD QUALITY FLANNEL; Tape Seams; Canvas Stitched Visor; Leather Sweat Band; Well Made Throughout; Solid Colors: Navy Blue, Gray and Red.....Per Dozen, $9.00

One Dozen of a Color in a Cardboard Box; Weight per Dozen about 1½ lbs.

Motor-Car Jacks.

No. 815. Compound Jack.

Raises and lowers the wheels of a car in less than half the time required by the generality of Jacks.

A new Jack working on an entirely fresh principle, and marking a real advance in Motor Jack construction.

In raising, the handle is used as a lever and the operator is enabled to apply his strength to the best advantage.

The lowering is accomplished by means of a double worm, which works very quickly and requires but the smallest effort to turn it.

The large size of the base renders this Jack eminently suitable for changing Detachable Wheels. The handle is 2 ft. long, and is attached to the Jack by a convenient trigger. By tilting the worm the Jack can be instantly adjusted to any desired height.

No. 1. Raises from 10 to 16 in. Approximate weight, 12 lb. Price **30**

No. 816

The Lucas "Burbury" Jack.

Price **12/6** each.

Lucas Hydraulic Jack.

The action of this is very quick and easy. A few strokes with the long lever handle suffice to raise a heavy touring car, and by depressing the release valve with the same lever the lowering is as instantaneous as one may desire. The base is 6 in. diameter, and the whole Jack only weighs 14 lb.

Height closed, 10½ in.; fully extended, 20½ in.

Length of Lever, 24 in.

No. 817.

Will lift 2 tons.

Price **£3 : 10 : 0**

Tangye Motor Jack. No. 818

The particular feature of this Patent Jack is the arrangement of the driving worm, which is provided with a sliding as well as a rotary motion. When it is desired to use the Jack, it is placed under the axle, as shown. The head of the rack is then lifted by the hand, as illustrated. This operation automatically slides the worm out of gear, the latter falling into position immediately the head of rack is released. Car is then raised by means of the lever, as indicated in the illustration.

After the rack of the Jack is lifted to its work, the car is raised as shown above.

No.	Height when down	Max. run out	Approx. Weight of Jack	Price, including Lever
	in.	in.	lb.	
0a	8¾	4½	7¼	15 6
2	9¾	4½	7¼	15 6
2a	10½	4½	7½	15 6
3	11¼	6	8	17 6
3a	12⅛	6	8¼	17/6
*4	12	5½	30	35/
*4a	13	5½	30½	35/-

* Bus or Lorry Jack

Illustration showing the Jack placed under car axle.

No. 819. Motor Trolleys.

These Trolleys are invaluable for moving motor cars in showrooms and other confined spaces, as with them cars can be turned round in their own length.

The Castors are mounted on large rings of balls which permit them to swivel in the required direction with the greatest possible ease.

The Frames are of cast iron of a registered design, giving the maximum of strength with the minimum of weight.

Size No. 1 up to 120 MM Tyres, per pair **£2 : 2 : 0** Weight, 3 qr. 14 lb.
" " 2 " 135 " " " **2 · 5 · 0** " 1 cwt.

Bronze Medal, 1884.—Gold Medal, 1890.

Motor Car Jacks.

No. 820.

This pattern is worked in a manner somewhat similar to the ratchet brace, the handle imparting a raising or lowering motion to the screw. It is strongly built, and is suitable for steam lorries and other heavy vehicles. It raises from 10 to 18 in.

Weight 9 lb. Price **14/-**

Midget Motor Jack.

Suitable for light Cars and Taxi-cabs.
Range from 10¾ to 16½ in.
Weight with handle, 8 lb.
Price complete, **7/6**

No. 821

No. 822.

Improved Pattern.

With Spinning Nut Quick Adjustment.

This favourite pattern is well known to the trade, many thousands having been sold. It has proved itself to be thoroughly reliable, and is recognised as the best value for money in Motor Jacks.

The handle is of [illegible] weight, and can be fixed to the Jack with a pin, which is attached to the handle by a chain.

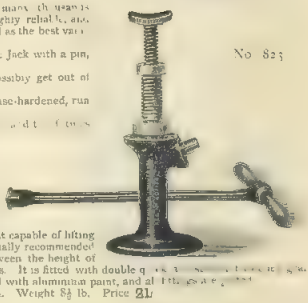
The quick adjustment is very simple, and cannot possibly get out of order.

The gear wheels, which are cut from the solid, and case-hardened, run in grease in dust proof cases.

The body is finished with two coats of stoved enamel and [illegible] lines.

Size	Approximate Lift	Weight with handle	Price.
No. 0	8 to 14 in.	6 lb.	**14**
No. 1	10 „ 18 „	7 „	**14**
No. 2	12 „ 22 „	9 „	**16**

The "Improved Universal."



No. 823

The large range possessed by this Jack renders it capable of lifting the wheels of any ordinary motor car, and it is specially recommended in cases where a considerable difference exists between the height of back [illegible] required to go under the front and back axles. It is fitted with double [illegible] wheels and unbreakable body. The body is finished with aluminium paint, and all [illegible] large [illegible] 20 in. Weight 8½ lb. Price **21/**

No. 824.

Range, 9½ to 16 in.
Price **14/6**

OUR WATCHWORD QUALITY R. MELHUISH, LTD

The Jack de Luxe.

OUR WATCHWORD QUALITY R. MELHUISH, LTD

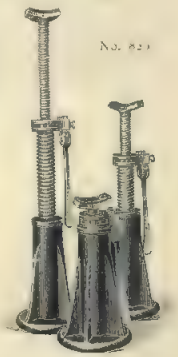
It closes down to such a short length that it may be used with Voiturettes, while its great reach when opened makes it suitable for the largest cars.

It is said to be strong enough for the largest cars.

Aluminium body, gun-metal bushes, quick double-thread movement by ratchet, superior finish throughout

It is lighter, quicker, shorter when closed, and longer when opened than any other

No. 825. As above, but with cast iron base. Price **10/6**



No. 825

Double screw, aluminium base.
Range, 9½ to 21 in. Price **21/-**

Tool, Machine, and Hardware Merchants and Manufacturers.

MACINAW STORM COATS

*NORLEIGH DIAMOND

NOTE.—In Ordering Be Particular to Mention Sizes Wanted

Sizes Carried in Stock 34, 36, 38, 40, 42, 44, 46 and 48 Inches; Other Sizes Made to Order Only, at an Advanced Cost.

This is the best Coat made for Sportsmen, Farmers, Teamsters, Automobilist, Skating, Sleighing and wherever a thoroughly Warm Garment is wanted.

NOTE—This Coat is more Durable than the Best Overcoat made, It will Furnish Greater Protection from Extreme Cold than any Overcoat, and is not being so inconvenient and heavy to wear. It is made of such lines as a Dress Coat and we recommend it to any one wanting an absolutely Warm Garment that will not hinder or impede the Wearers motions.

Per Dozen

No. M—Genuine Extra Heavy All Wool Blanket Macinaw; Olive Tan Color, Length 38 inches; Double Breasted Styles Four Button Front with two rows Genuine Horn Buttons, Two Side and two Breast Pockets, Pockets and Wrists lined with Heavy Corded Drill, Extra High Rolling Storm Collar which can be Turned Down when Desired, Extra Wide Seams in Back with Nickel Plated Steel Buckle, Collar, Straps and all Edges doubled and stitched with Heavy Linen Thread and reinforced all around Every Thread Worked Button Holes Large Flaring Skirt, Made of Best Material throughout and in the Very Best Manner, Weight per Dozen 36 lbs. Twelfth Dozen in a Box **$184 80**

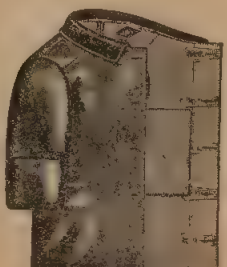
SLICKER DUCKING COATS

* NORLEIGH DIAMOND

NOTE -In Ordering be Particular to Mention Sizes Wanted.

Sizes Carried in Stock: 38, 40, 42, 44, 46 and 48 Inches

NOTE—This Coat is Intended to be Worn Over Regular Hunting Coat in Very Wet and Rainy Weather. The Surface is Treated with the Latest Secret Composition Used in the Manufacture of Waterproof Garments. It is the Best Article ever Brought Out for the Purpose Intended and will Readily Commend Itself to that Class of Shooters who Find it Necessary to Hunt in Rainy Weather, Wet Regions, Etc. Every Coat Warranted Absolutely Waterproof.



Per Dozen

No. S—Highest Quality Slicker Coat, Absolutely Waterproof; Light Brown Color, **Velvet Collar.** Reinforced on Inside Across Shoulders and Back; Two Outside Pockets with Flaps, One Inside Pocket; all Buttonholes Leather Reinforced; Large Horn Buttons Sewed on Leather to Prevent Pulling Out, Sewed Throughout with Linen Thread, Seams Turned Over and Doubled. . **$48 40**

Average Weight per Dozen 40 lbs.

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

Novelty Horns

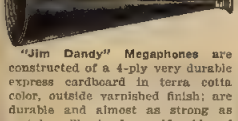
N2384 N6499 N6500

No. N2384. Shell Horn, made up of a 2½ in. very prettily colored natural Cowry shell, end bored and fitted with a wooden mouthpiece with reed, blows like a horn. With bangle of two Venetian shells with colored tassels. Something new in this line; 2 dozen in box.
Gross..... 2.50 | Dozen..... .23

No. N6499. Bottle Horn, the exact shape of a champagne bottle, 4¾ in. long, fashioned out of wood, enameled in black color with a regular champagne label, silver foil top. This is deceptive because instead of a drink it will deliver a blow, like a dinner horn; a good novelty at any time.
Gross..... 3.25 | Dozen..... .30

No. N6500. Novelty Bugle Horn, 5½ in. turned out, in fancy conoid design of wood painted stripe fashion red, white and blue, shaped mouthpiece fitted with short brass blow reed; 1 dozen in box.
Gross..... 4.25 Dozen..... .38

Express Board Megaphones



"Jim Dandy" Megaphones are constructed of a 4-ply very durable express cardboard in terra cotta color, outside varnished finish; are durable and almost as strong as metal; will stand considerable of banging and abuse, constructed in shape to amplify the speaking tone into a practical storm. The mouthpiece is a fancy turned design of hardwood of a graceful tapering shape.

No.		Doz	Ea.
N61.	16¾ in.	2.00	.20
N62.	24 in.	4.00	.40
N63.	30 in. with leather handle		.60

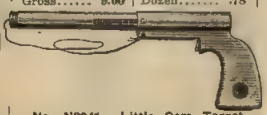
Montgolfier Balloons

These Montgolfier Balloons are made from especial quality of prepared paper, each balloon provided with directions for lighting. We also wish to direct attention to the sizes which are extra large and our new patented burner, easy to light, requires no oil and is perfectly safe. Red, white and blue color.

No.	Size.	In Box.	Dozen
N6.	30 in.	1 dozen	.60
N8.	33 in.	1 dozen	.75
N10.	43 in.	½ dozen	1.00
N15.	53 in.	½ dozen	1.20
N20.	72 in.	¼ dozen	1.85
N25.	90 in.	⅛ dozen	2.35
N30.	111 in.	1/12 dozen	3.25
N35.	126 in.	1/12 dozen	4.00

New Air Torpedoes

No. N2349. Air Torpedo, new style, consists of a pair of tong handles on swivel pin, made of steel, japanned in black, with a rimmed rubber cup in the lower handle. Paper placed on top of the cup, the handles close and it's ready to explode.
Gross..... 9.00 | Dozen..... .78



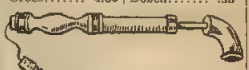
No. N2341. Little Gem Target Pistol, 7 in. long, stamped of solid steel, nickel finish, long round barrel fitted with coil spring, rubber tipped rod used as a target dart is loaded into barrel by plunging it down on the spring and is shot out by releasing the spring with the trigger same as a pistol, fancy colored printed target card with numbers in each box. Dozen ..... .80

No. N2340. Dandy Pop Pistol, 7 in. long, stamped of heavy steel, nickel finish, round barrel fitted inside with coil steel spring, charged by plunging barrel downward, then load it with cork attached by string, shot out by releasing with trigger same as a pistol. Each in box. Dozen ..... .85

Pop Guns

No. N2343. Pop Gun, wooden gun stock, gilted tin barrel, with air piston, propelled by strong spiral spring which is released by regular gun trigger, shoots out the cork with a loud, popping noise. Good, staple, harmless toy, 12 in. long; 1 dozen in package
Gross..... 4.00 | Dozen..... .35

No. N2344. Pop Gun, gun shape with curved handle, turned beechwood barrel with imitation silver rings inlaid, popping cork attached by waxed string; shoots with loud report; 8 in. long; 1 doz. in package
Gross..... 4.00 | Dozen..... .35



No. N2342. Repeating Pop Gun, 10½ in. long, pistol shape. Barrel fancy turned design, to handle is attached wooden piston rod. To the end of that by a strong wax cord is attached cork stopper. Pulling at the piston rod jerks the cork into the barrel. Pushing it in pops the cork out with a loud noise. May be shot quickly and loaded in succession. Varnished finish with colored striping Nice for souvenir or advertising. These are remarkably good sellers. 1 dozen in package.
Gross..... 8.00 | Dozen..... .70

Mannikin Pop Guns

No. N2345. Mannikin Pop Gun, 8 in. long, Mannikin shaped out of wood, finished in enameled bright colors painted face, loose arms. To the pedestal is attached ram rod with a cork tied to a wax cord, which draws in when rod is pulled out. May be shot repeatedly with loud, popping noise; assorted figures, Hindoo and Policeman; 1 dozen in package.
Dozen..... .75

Stevens Hammer Double Barrel Shot Guns

9025 Barrels—Stevens Compressed Forged, high pressure steel, choke bored for nitro powder. Has matted extension rib. Action—Top snap made extra wide and strong, new style compensating locking bolt through extension rib, low circular hammers, rebounding locks with drop forged steel parts, solid plungers, case hardened frame. The frame and action is a radical departure from anything now on the market, the main springs being spiral and working on plungers, which are set in the frame directly in front of the hammer, thus insuring a smooth, easy and positive action. Also has in addition a check-hook to take the wear off the joint. Stock—Oiled walnut, finely finished with pistol grip checked, patent snap forearm, checked. Length 14 inch, 2¼ or 3 inch drop. 12 gauge, 30 inch barrel, weight about 7 to 8¼ lbs. Each....**$26.00**

9026 Barrels—Stevens Compressed Forged, high pressure steel, choke bored for nitro powder. Has matted extension rib. Frame—Drop forged. Action—Top lever, patent rotary compensating cross bolt through extension rib, check hook, low circular hammers, rebounding bar locks, solid plungers, parts drop forged. Stock—Varnished walnut, finely finished, with pistol grip, checked and capped; patent snap forearm, checked; rubber butt plate. Length 14 inch, 2½ to 3¼ inch drop. 12 gauge, 30 or 32-inch barrel; weight about 7¼ to 8¼ lbs. Each **$38.65**

MARBLE'S GAME GETTER GUN

This is an all-around gun. It is a target rifle or pistol, a big game gun or shot gun. It has two barrels, one 22 caliber, the other 44 caliber. The 22 and 44 bullets shoot to the point blank range of 50 feet with sights set the same. There is very little recoil on account of 44 barrel being smooth bored and not choked. A 44 ball penetrates six inches of pine at 15 feet and will kill a deer or black bear at 40 to 50 yards.

Two barrels, Shoots 22 Short, 22 long Rifle, 44 Shot and 44 Ball Cartridges

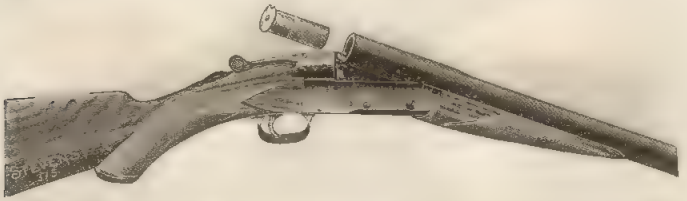
9027 Game Getter, upper barrel 22 caliber, lower barrel, 44 caliber, round blued barrels, single trigger, drop forged blued frame, rubber grips, nickel plated tubing stock, finest case leather holster, length of barrels, 12 in., equipped with lock leaf sight, ivory bead sight, weight 35 ozs. Each **$36.00**

We Are "The House of Quality." You Can Be Sure That Anything You Get From Us Is All Right.

"THE HOUSE OF QUALITY"

Single Barrel Shot Guns

STEVENS' HAMMERLESS AUTOMATIC EJECTOR



9028 Special "Pyro-Electro" steel barrel, choke bored for nitro powder; drop forged and case hardened frame; top snap and automatic shell ejector. This shotgun possesses a new locking device by which it cannot be opened to insert a shell until the gun is at full cock, and an automatic safety, making it impossible to discharge the gun before it is pushed forward. Varnished walnut stock, finely finished with pistol grip checked and capped, with a patent walnut forearm checked with metal joint. 12 gauge, 30 inch barrel, weight 6 pounds 2 ounces to 6 pounds 6 ounces. Each. $18.65

STEVENS' HAMMER, AUTOMATIC EJECTOR

9029 Barrel—Special 'Electro' steel choke bored for nitro powder. Frame—Case hardened. Action—Top snap low rebounding hammer has automatic shell ejector. Stock—Varnished walnut with pistol grip checked and capped; rubber butt plate, patent snap, walnut forearm checked with metal joint. Ammunition—Adapted for any standard make of shell, factory loaded with either black or smokeless powders. Gauges, Lengths and Price—12 gauge, 30-inch barrel, weight about 6¾ lbs. Each. $13.30

HOPKINS & ALLEN

Two-Piece Shot Gun, Blued Steel Barrel, Case-Hardened Frame, Metal Joint Fore End, Plain Extractor.
Guaranteed for use with nitro powder, properly loaded.

9030 12 gauge, 30-inch barrels, weight 6½ lbs. Each. $9.00

Don't Hesitate to Write and Ask Questions, We Want You to Know All About Our Goods.

"THE HOUSE OF QUALITY"

MATCH SAFES.

WALL.

ETRUSCAN BRONZED Iron, with Scratch; Height 4½ in.; Width 4 in.; Projects 1¾ in.

No. 70—Weight per dozen about 4 lbs.. .....Per Dozen, $2.00

One Dozen in a Cardboard Box.

DOUBLE; WALL.

IC Tin, Nickel Plated; With 2x4½ in. Tray and Scratch; Height 4¾ in.; Width 4½ in.; Projects 3⅛ in. from Wall.

No. 8—DOUBLE; Weight per dozen about 3¼ lbs. .....Per Dozen $2.00

One Dozen in a Cardboard Box

SQUARE

IC Tin, Japanned; Assorted Colors with Scratch; Height 5 in.; Width 2⅝ in.; Projects 1⅝ in. from Wall.

No. 2—SQUARE; Weight per dozen about 3¼ lbs. .....Per Dozen $1.00

One Dozen in a Package

TWIN

IC Tin, Fancy Black Japanned; With Scratch, Height 5 in.; Width 4⅝ in.; Projects 2 in. from Wall.

No. 1—TWIN, DOUBLE; Weight per dozen about 2¾ lbs.....Per Dozen $0.90

One Dozen in a Cardboard Box

POCKET LIGHTERS.

NOT A MERE NOVELTY BUT AN ARTICLE FOR DAILY PRACTICAL USE.

Self-opening Spring Hinged Cover; Removable Threaded Filler Cap.

A Handy Article wherever a Match or Instantaneous Light is required; produces Light without the use of Matches. The Lower Section of the Case forms a Tank which is charged with Absorbent Cotton which should be saturated with Benzine or Gasoline; There is a Wick which extends through a Tube leading into the Tank and is surrounded by the Cotton. The Upper Part of the Case is equipped with a Geared Spark Plug Igniter which ignites a small Spark Plug held in place by means of a Steel Spring; By pressing a small Push Button the Cover will spring open and as it does, it turns the Gearing which causes a Rapid Friction on the Spark Plug and throws a Small Flame which immediately ignites and a Perfect Light is obtained.

Can be used for lighting Lanterns, Automobile and Bicycle Lamps; will not blow out near as easily as a Match and can be used in many instances as a Lamp.

The Tank will hold about 60 drops. The Life of the Spark Plug depends entirely upon the amount of times the Lighter is put into use.

FULL DIRECTIONS OF HOW TO OPERATE FURNISHED WITH EACH LIGHTER.

Sectional Cut.

Per Dozen

No. 100 — IMPERATOR, NICKEL PLATED SOLID BRASS CASE; Size 2 3/16 x 1¼ in.; Weight per dozen about 2 lbs. $16.00

By removing the Threaded Filler Cap the Tank can be drawn from the Case so that the Spark Plug does not become damp with Benzine or Gasoline from overflow when filling.

Sectional Cut.

Per Dozen

No. 200 — REVOLT; NICKEL PLATED STEEL CASE; Size 2¾x1⅝ in.; Weight per dozen about 1½ lbs $13.00

One Dozen in a Cardboard Box.

EXTRA SPARK PLUGS FOR POCKET LIGHTERS.

Per 100

No. SP—Weight per 100 about ¼ lb..... $3.50

Packed Loose.

TACK CLAWS.

KEEN KUTTER*

Claw and Shank Forged from Highest Grade Crucible Steel, Blued Finish; Stained Hardwood Handle, with Nickel Plated Steel Ferrule; Width of Claw ⅝ in.; Length of Handle 4 in.. Length over all 7 in.

Per Dozen

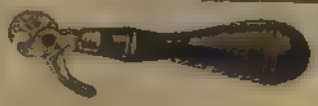
No. K2—KEEN KUTTER*; Weight per dozen about 2 lbs...$1.60

Polished Malleable Iron Claw and Round Shank, Plain Finish Hardwood Handle; Brass Ferrule; Width of Claw ⅝ in.; Length over all 6¾ in.

No. 11—Weight per dozen about 1½ lbs..Per Dozen, $1.20

One Dozen in a Cardboard Box

TACK PULLERS.



Plain Finish Stamped Steel Jaws and Shank; Black Enameled Hardwood Handle; Brass Ferrule.

Length over all 5⅛ in.

Per Dozen

No. LG—LITTLE GIANT; Weight per doz. abt. 1 lb..$1.40

One Dozen in a Cardboard Box.

CARPET STRETCHERS.

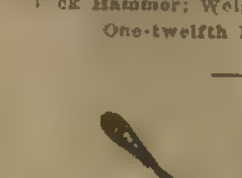
Japanned Malleable Iron Lever, Tack Hammer, Ratchet and Prong; Coppered Steel Wire Pulls on Head, secured with Heavy Steel Screw Eyes.

Oil Finish Hardwood Head and Arm. Tempered Steel Wire Claws; Length of Head 16 in.; Length of Arm 14½ in.; Length of Lever and Hammer 9 in.

Per Dozen

No. E—EXCELSIOR, Combined Carpet Stretcher and Tack Hammer; Weight per dozen about 18 lbs $12.00

One-twelfth Dozen in a Cardboard Box.



Japanned Malleable Iron Frame and Claws; Japanned Stamped Steel Lever; Steel Prong in Frame; Oil Finished Hardwood Handle; Brass Ferrule.

Length of Lever 7 in.; Length of Frame 9 in.; Length of Face 2¾ in.; Length over all 13¾ in.

Per Dozen

No. B—BULLARD; Weight per dozen about 3½ lbs..$3.84

One-half Dozen in a Cardboard Box.

FULL POLISHED CAST STEEL, WITH SOCKET

Diameter of Socket Inside ¾ in.; Length of Face 3½ in.; Length over all 6 in.

Per Dozen

No. 2—Weight per dozen about 6 lbs. $5.50

One Dozen in a Cardboard Box

Japanned Cast Iron Frame and Socket; 4⅛ in. Stamped Steel Face, with Claws; Face Riveted to Frame with Two Heavy Iron Rivets.

Diameter of Socket (Inside) 13/16 in.; Height over all 4¼ in.

No. 1—Weight per dozen about 5 lbs. .....Per Dozen, $1.00

One Dozen in a Cardboard Box.

LETTER BOXES.

WROUGHT STEEL.

11½x6x2¾ in. Spring Wire Clip for Holding Papers; Hinged Front fitted with [illegible] Spring Lock, 2 Flat Steel Keys, Brass Name Plate back of Glass.

Per Dozen

No. 18BP—HEAVY WROUGHT STEEL OXIDIZED BLACK [illegible] 18H $22.50

One-twelfth Dozen in Carton. Complete with Screws; Weight each about 2½ lbs.

12x[illegible]x2¾ in. Flat Steel Spring for Holding Papers; Hinged Front Fitted with Cylinder Dead Lock; 2 Flat Steel Keys to Each Lock; Brass Name Plate Protected by Glass.

Per Dozen

No. 10—JAPANNED ..... [illegible]

No. 10 OC—OLD COPPER FINISH..... 16.00

No. 10DB—DULL BRASS FINISH..... 16.00

One-twelfth Dozen in a Cardboard Box, Complete with Screws; Weight per Dozen about 20 lbs.

11x5¾x2¾ in. Flat Steel Spring for Holding Papers; Hinged Front Fitted with Cylinder Dead Lock; 2 Flat Steel Keys to Each Lock; Brass Name Plate with Glass Front.

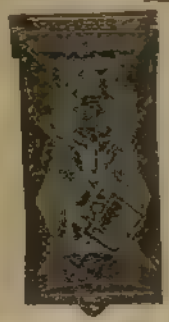
Per Dozen

No. 2418J—JAPANNED FINISH.....$ 8.50

No. 2418 OC—OLD COPPER FINISH. 11.50

No. 2416DB—DULL BRASS FINISH.. 11.50

One-twelfth Dozen in a Cardboard Box. Weight per Dozen about 20 lbs.



12x5⅝x2¾ in., Cast Iron, Black Japanned; Cast Iron Drop; Fitted with Hasp and Staple for Padlock.

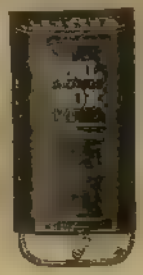
Per Dozen

No. 1—Weight per dozen about 36 lbs.....$6.00

11¼x5⅝x2¼ in.; Wrought Steel, Japanned, Flat Steel Spring for Holding Papers; Drop Hinged Front Fitted with Cylinder Dead Lock; 2 Flat Steel Keys to Each Lock.

Per Dozen

No. 2417—Weight per dozen about 18 lbs.....$8.50



10¼x5⅝x23/16 in.; Japanned Steel; Hinged Drop Bottom Fitted with Lever Hasp for Padlock.

Per Dozen

No. 100—Weight per dozen about 13 lbs.....$4.80

One-twelfth Dozen in a Cardboard Box. Complete with Screws.

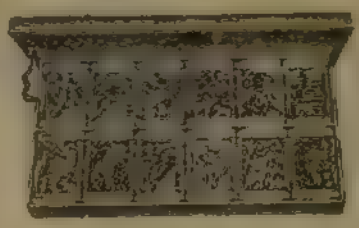
11x5⅛x1⅞ in., Wrought Steel, Slotted Hinged Top with Extra Cover Wire Holder for Holding Papers, Fitted with Eye for Locking with Padlock.

Per Dozen

No. 30J—JAPANNED, DEAD BLACK FINISH. Weight per dozen about 9½ lbs. $2.70

One Dozen in a Paper Carton

MATCH SAFE ASSORTMENTS.



POCKET

Sold only in Complete Assortments.

ASSORTED Designs. Steel, Nickel Plated, Embossed Brass Oxidized Silver Finish Side Plates, Clinched to Body; Spring Cover; Size 1⅛ x2¾ in.

Per Assortment

No. 225—Weight per Assortment about 1¼ lbs. $4.80

One Dozen in a Cardboard Box

ASSORTED, Raised Designs; Tin, Gun Metal Finish; Nickel Plated Ends; Spring Cover; Size 1⅝x2¾ in.

No. 296—Weight per Assortment about 1 lb. Per Assortment $3.50

One Dozen in an Easel [illegible]

MATCH SAFES.

POCKET

Drawn Brass Knurled and NICKEL PLATED Cylinder, which closes with an Air and Water Tight Joint. About same Size as a 12-Gauge Shell.

Per Dozen

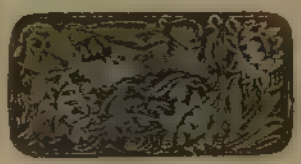
No. M—MARBLES; Weight per dozen about ¾ lb...$9.50

One in a Cardboard Box; One Dozen in a Carton.

ALUMINUM; Assorted Designs; Spring Cover; Size 2¾x 1½ in.

Per Dozen

No. 5—Weight per dozen about ½ lb.....$3.80



TIN, NICKEL PLATED; Fancy Raised Design; Spring Cover; Size 1½x 2¾ in

Per Dozen

No. 260—Weight per dozen about 1 lb.....$3.30

One Dozen in a Cardboard Box.

BRASS; Fancy Design Polished; Spring Cover; Size 1⅝x3 in

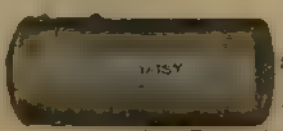
Per Dozen

No. 31—Weight per dozen about ½ lb.. ... . $2.40

MINERS'; WATERPROOF. Brass; Nickel Plated; Size ¾x2⅝ in.

Per Dozen

No. 7898—Weight per dozen about ½ lb.....$1.80



BRASS, NICKEL PLATED; Press Button, Spring Cover. Size 1⅛x2⅝ in.

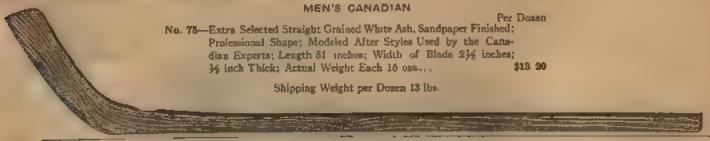
Per Dozen

No. D—DAISY; Weight per dozen about ½ lb.....$1.80

One Dozen in a Cardboard Box

HOCKEY STICKS

All of Our Hockey Sticks are Made of Selected Kiln Dried Timber. They are the Most Approved Patterns and Correct in Shape, Steam Bent, so that the Grain of Wood is Continuous from End of Handle to Tip of Blade

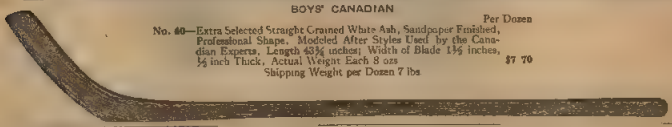


MEN'S CANADIAN

Per Dozen

No. 75—Extra Selected Straight Grained White Ash, Sandpaper Finished; Professional Shape; Modeled After Styles Used by the Canadian Experts; Length 51 inches; Width of Blade 2¾ inches; ⅝ inch Thick; Actual Weight Each 16 ozs.... $13 20

Shipping Weight per Dozen 13 lbs.



BOYS' CANADIAN

Per Dozen

No. 60—Extra Selected Straight Grained White Ash, Sandpaper Finished, Professional Shape. Modeled After Styles Used by the Canadian Experts. Length 43¾ inches; Width of Blade 1⅝ inches, ½ inch Thick; Actual Weight Each 8 ozs $7 70

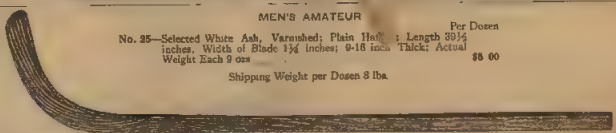
Shipping Weight per Dozen 7 lbs

MEN'S REGULATION

Per Dozen

No. 50—First Quality Hickory; Straight Grained; Varnished; Plain Handle; Stuff and Thoroughly Seasoned; Length 39½ inches, Width of Blade 1½ inches; [illegible]inch Thick; Actual Weight Each 10 ozs $12 10

Shipping Weight per [illegible]n 9 lbs.

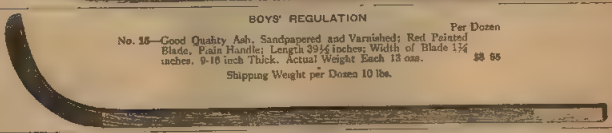


MEN'S AMATEUR

Per Dozen

No. 25—Selected White Ash, Varnished; Plain Handle; Length 39½ inches, Width of Blade 1¼ inches; 9-16 inch Thick; Actual Weight Each 9 ozs $5 00

Shipping Weight per Dozen 8 lbs.

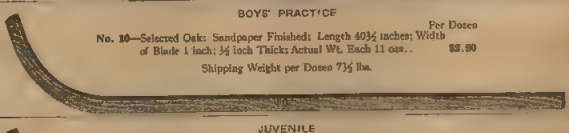


BOYS' REGULATION

Per Dozen

No. 15—Good Quality Ash, Sandpapered and Varnished; Red Painted Blade, Plain Handle; Length 39½ inches; Width of Blade 1¼ inches, 9-16 inch Thick. Actual Weight Each 13 ozs. $3 85

Shipping Weight per Dozen 10 lbs.

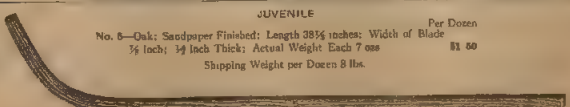


BOYS' PRACTICE

Per Dozen

No. 10—Selected Oak; Sandpaper Finished; Length 40½ inches; Width of Blade 1 inch; ½ inch Thick; Actual Wt. Each 11 ozs.. $3.50

Shipping Weight per Dozen 7½ lbs.



JUVENILE

Per Dozen

No. 5—Oak; Sandpaper Finished; Length 38½ inches; Width of Blade ⅞ inch; ½ inch Thick; Actual Weight Each 7 ozs $1 50

Shipping Weight per Dozen 8 lbs.

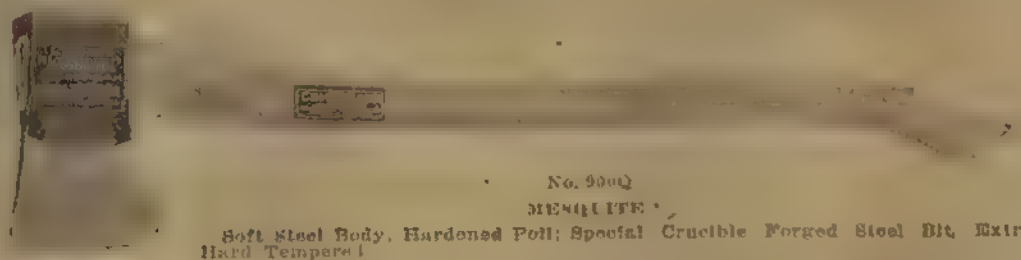
Six Dozen in a Crate

"DIAMOND EDGE IS A QUALITY PLEDGE"

AXES.

SINGLE BIT

[illegible] SIMMONS PATENT WEDGE which will Positively Prevent the Head from Flying Off the Handle.



No. 900Q

MESQUITE

Soft Steel Body, Hardened Poll; Special Crucible Forged Steel Bit, Extra Hard Tempered

OHIO PATTERN, PLAIN; PAINTED BLACK POLISHED BIT

No. 900 Q—With Cumberland Octagon Handle No. CXX.

[illegible] ry Handle

Weight of Head, lbs	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	64	69
Per dozen	$20.50	21.00	21.50

No. 900 QQ—With Standard Octagon Handle No. SXX.

Handled with Standard XX Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	64	69
Per dozen	$20.50	21.00	21.50

No. 900W W [illegible] lard Oval Handle No S 2

Handled with Standard No. 2 Quality Machine Made Hickory Handle.

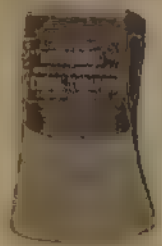
Weight of Head lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	64	69
Per dozen	$18.50	19.00	19.50

One Dozen in a Crate

No. 900—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs	49	54	59
Per dozen	$15.50	16.00	16.50

One Dozen in a Wood Box

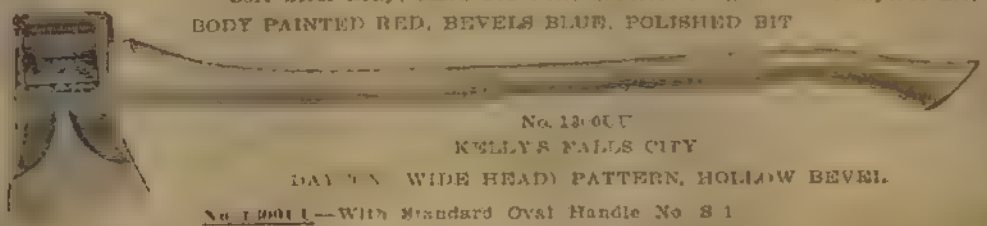


No. [illegible]

KELLY'S FALLS CITY.

Soft Steel Body, Hardened Poll; Crucible Forged Steel Tempered Bit,

BODY PAINTED RED, BEVELS BLUE, POLISHED BIT



No. 1300UU

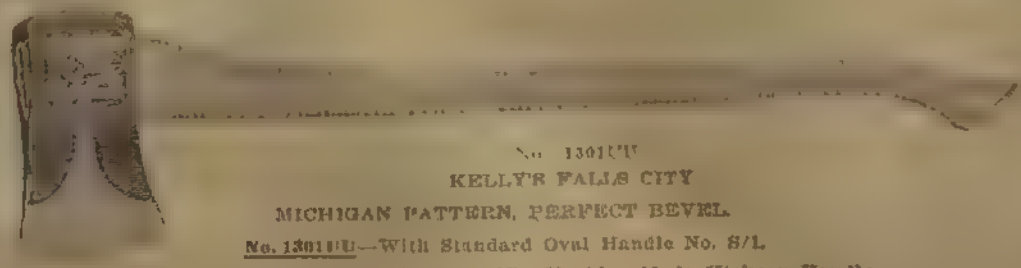
KELLY'S FALLS CITY

DAY [illegible] WIDE HEAD) PATTERN, HOLLOW BEVEL.

No. 1300UU—With Standard Oval Handle No S 1

Handled with Standard No. 1 Quality Machine Made Hickory Handle

Weight of Head, lbs	3½ to 4½	4 to 5
Weight per dozen about	55	65
Per dozen	$17.00	17.50



No. 1301UU

KELLY'S FALLS CITY

MICHIGAN PATTERN, PERFECT BEVEL.

No. 1301UU—With Standard Oval Handle No. S/L

Handled with Standard No. 1 Quality Machine Made Hickory Handle.

Weight of Head lbs.	3½ to 4½
Weight per dozen about, lbs.	65
Per dozen	$17.00

One-half Dozen in a Crate.

Weight of Each Axe Stamped on the Poll.

TRADE MARK. "BAY STATE." REGISTERED

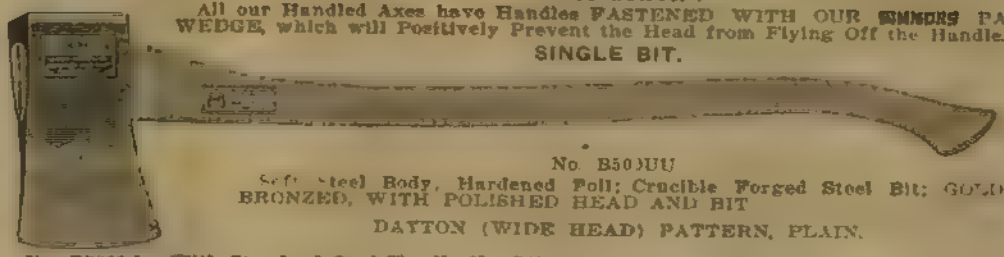
AXES.

SINGLE AND DOUBLE BIT.

BAY STATE.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

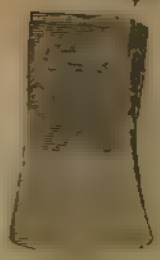
SINGLE BIT.



No. B500UU

Soft Steel Body, Hardened Poll; Crucible Forged Steel Bit; GOLD BRONZED, WITH POLISHED HEAD AND BIT

DAYTON (WIDE HEAD) PATTERN, PLAIN.



No. B500.

No. B500U.—With Standard Oval Handle No. S/1.

Handled with Standard No. 1 Quality Machine Made Hickory Handle.

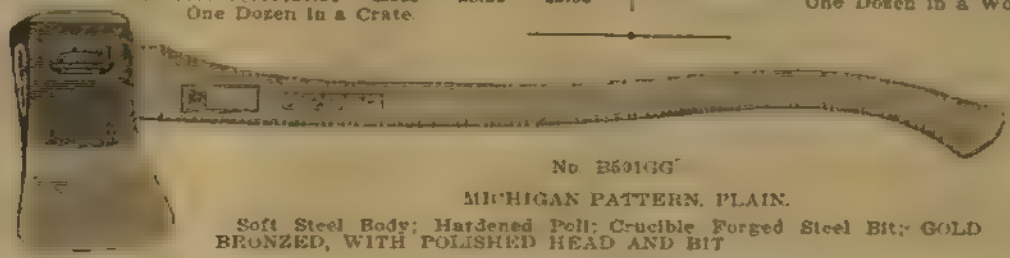
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per doz. abt. lbs.	65	70	75	85
Per dozen	$17.50	18.00	18.50	19.00

One Dozen in a Crate.

No. B500.—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per doz. abt. lbs.	49	54	64	74
Per dozen	$13.50	14.00	14.50	15.00

One Dozen in a Wood Box.



No. B501GG

MICHIGAN PATTERN, PLAIN.

Soft Steel Body; Hardened Poll; Crucible Forged Steel Bit; GOLD BRONZED, WITH POLISHED HEAD AND BIT

No. B501.

No. B501X.—With Blue Oak Oval Handle No. A1N.

Handled with Blue Oak Extra Select Hand Shaved Oak Handle

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about lbs.	65	70	75
Per dozen	$18.50	19.00	19.50

No. B501GG.—With Wisconsin Oval Handle No. R3X.

Handled with Wisconsin Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$19.00	19.50	20.00

One Dozen in a Crate.

No. B501Y.—With Cumberland Oval Handle No. C 1

Handled with Cumberland Third Selection Hand Shaved Hickory Handle

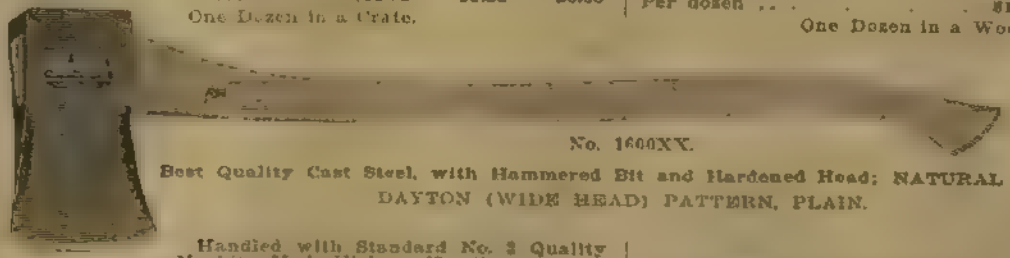
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about lbs.	65	70	75
Per dozen	$18.00	18.50	19.00

One Dozen in a Crate.

No. B501.—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	44	54	64
Per dozen	$13.50	14.00	14.50

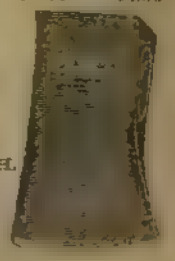
One Dozen in a Wood Box.



No. 1600XX.

Best Quality Cast Steel, with Hammered Bit and Hardened Head; NATURAL FINISH.

DAYTON (WIDE HEAD) PATTERN, PLAIN.



No. B1600.

Handled with Standard No. 2 Quality Machine Made Hickory Handle.

No. B1600XX.—With Standard Oval Handle No. S/3.

Weight of Head, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	65	70
Per dozen	$15.00	15.50

One Dozen in a Crate.

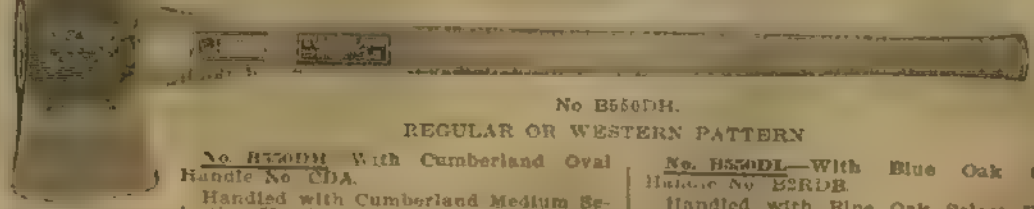
No. B1600.—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½
Weight per dozen about, lbs.	49	54
Per dozen	$12.00	12.50

One Dozen in a Wood Box.

DOUBLE BIT.

Soft Steel Body; Crucible Forged Steel Bits; GOLD BRONZED BODY, WITH POLISHED BITS.



No B550DH.

REGULAR OR WESTERN PATTERN

No. B550.

No. B550DH. With Cumberland Oval Handle No. CDA.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$22.00	22.50

No. B550DR With Standard Oval Handle No. SDAX.

Handled with Standard Extra Quality Machine Made Hickory Handle

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$22.50	23.00

One Dozen in a Crate.

Weight of Single Bit Axes Stamped on the Poll, Double Bit Near the Eye

No. B550DL.—With Blue Oak Oval Handle No. B2RDB.

Handled with Blue Oak Select Hand Shaved Oak Handle

Weight of Head, lbs.	3½ to 4½	4 to 5
Weight per dozen about, lbs.	70	75
Per dozen	$19.50	20.00

One dozen in a Crate

No. B550. WITHOUT HANDLE

Weight each, lbs	3½ to 4½	4 to 5
Weight per dozen about lbs	54	64
Per dozen	$16.50	17.00

One Dozen in a Wood Box.

METAL PARLOR LAMPS.

Complete as shown, with Shades, Shade Rings, No 2 Success Center Draft Lift-out Oil Pots with Burners, No 1 Liberty Wicks and No 1-L 10¾ in Liberty Chimneys. Oil Pot Capacity 1¾ Pints.

No. 400 — Weight Each about 45 lbs. . . .Each, $9.00

Height to Top of Shade 19 in., Shade 11 in. Square, Bent Heavy Muffled Glass, Body and Shade Cast Iron Dull Bronze Finish, Green Art Glass in Panels.

No. 401—Weight Each about 40 lbs. Each, $16.00

Height to Top of Shade 22¾ in., Shade 13¾ in. Square Cast Iron Stiff Brass Body and Shade, Satin Finish, Green Art Glass Panels in Shade, 3 in Green Glass Beads.

One Complete Lamp, as Described, in a Wood Box

LAMP ASSORTMENTS.

LIBRARY LAMPS.

CONTAINS ONE EACH OF THE 3 LAMPS SHOWN BELOW.

Complete with Burners, No 2BTS Chimneys, No. 111 Crystal Founts, 14 in. Decorated Shades Bronze Metal Trimmings, Rich Gilt Finish.

3 LAMPS
Assortment will not be broken.

Brass Trimmings, Gilt Finish; Width of Decorated Shade 14 in. Length from Bottom of Font to Top of Hanger, Closed, 42 in. Extended 48 in.

No. 1[illegible] C With No. 2E Burner and No. 1214 Decorated Dome Shade .....Each, $3.50

Brass Trimmings Gilt Finish Automatic Spring Extension Length from Bottom of Font to Top of Hanger Closed 30 in. Extended 54 in.

No. 1903/C With No. 2 Os Burner and No. 1214 Decorated Dome Shade .....Each, $7.25

Brass Trimmings Gilt Finish Automatic Spring Extension Length from Bottom of Font to Top of Hanger Closed 30 in. Extended 60 in.

No 1901/C—With No. 2E Burner and No. 1214 Decorated Dome Shade .....Each, $5.00

No. 675—ASSORTMENT OF THREE LAMPS. . . . . Per Assortment $14.50

SOLD ONLY IN FULL ASSORTMENTS.

One Complete Assortment of 3 Lamps in a Barrel; Weight Each about 55 lbs.

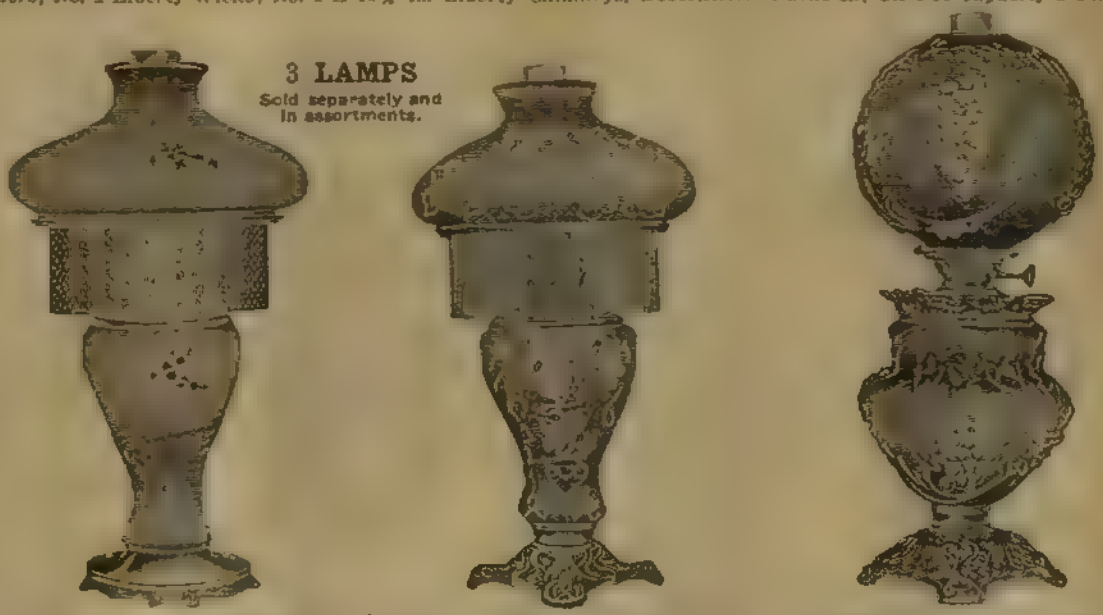
WE MAKE NO CHARGE FOR PACKING.

LAMP ASSORTMENTS.

DECORATED PARLOR

CONTAINS ONE EACH OF THE 3 CENTER DRAFT LAMPS SHOWN BELOW.

Complete with Fancy Crown Top Shades and 10¼ in. Globe. No. 2 Success Center Draft Lift-Out Oil Pots and Burners; No. 1 Liberty Wicks; No. 1-L 10⅜ in. Liberty Chimneys. Decorations Burnt in; Oil Pot Capacity 2 Pints.



No. 1110G.....Each, **$10.50**

Height to Top of Shade 23 in., 10 in. Shade; 4 in. Green Glass Beads.

Solid Gray Glass Vase and Shade; Hand Painted Forget-Me-Nots, Gold Decorated; Metal Parts Finished in Bronzed Brass.

No. 1110C.....Each, **$7.50**

Height to Top of Shade 23¾ in.; Bell Top Swelled 10 in. Shade; Metal Trimmings, Oxidized Brass Finish; Embossed Maple Leaves on Green, Terra Cotta and Yellow Background; Green Glass Beads.

No. 1110H.....Each, **$7.00**

Height to Top of Shade 24 in.; 10 in. Globe.

Embossed Grape Design; Variegated Brown, Green and Purple Blended Background; Metal Parts Finished in Gilt.

No. 1110—ASSORTMENT OF THREE LAMPS.....Per Assortment, **$26.00**

One Complete Assortment of 3 Lamps in a Tierce; Weight about 80 lbs.

DECORATED RECEPTION LAMPS.

Complete as shown with No. 2 Success Center Draft Lift-Out Oil Pots, with Burners, No. 1 Liberty Wicks, No. 1-L 10⅜ in. Liberty Chimneys, Shades with Shade Rings, Cast Feet and Metal Trimmings, Gilt Finish. Decorations Burnt in. Oil Pot Capacity 2½ Pints.

No. 1140—Weight Each about 55 lbs.....Each. **$10.50**

Height to Top of Shade 26 in. Fancy Bonnet Shape 10 in. Shade, Storm Green Blended Background; Cluster of Pink and White Roses and Green Leaves; Metal Parts Finished in Rich Gold.

No. 1150—Weight Each about 60 lbs.....Each. **$14.00**

Height to Top of Shade 26½ in.; Bell Top Swelled 14 in. Shade; Extreme Outside Diameter of Shade 17¼ in.; 5 in. Green Glass Beads. Green and Red Blended Background; Cluster of Red and White Roses and Green Leaves; Metal Parts Finished in Rich Gold.

One Complete Lamp in a Barrel.

WE MAKE NO CHARGE FOR PACKING.

MINERS' AND DRIVERS' LAMPS.

FOR LARD OIL OR COTTONSEED OIL.

STAR

HEAVY TIN; Tapered Sides; Heavy Bottom; Double Spout; Heavy Wire Hook and Solid Hinge. Heavily Soldered, Height of Fount 2 in.; Diameter of Bottom 1⅝ in.; Length of Spout 1⅞ in Capacity ⅛ Pint

Per Dozen

No. BSM—MINERS'; Weight per dozen about 1½ lbs.....$2.70

HEAVY TIN, Tapered Sides; Heavy Bottom; Double Spout; Heavy Wire Hook and Solid Hinge, Heavily Soldered; Height of Fount 2⅛ in.; Diameter of Bottom 1¾ in.; Length of Spout 2⅝ in.; Capacity ⅛ Pint.

Per Dozen

No. BSD—DRIVERS'; Weight per dozen about 1½ lbs.....$3.00

HEAVY TIN; Tapered Sides; Heavy Bottom; Double Spout, Heavy Wire Hook and Solid Hinge; Heavily Soldered; Height of Fount 2 in.; Diameter of Bottom 1¾ in.; Length of Spout 2 1/16 in.; Capacity ⅛ Pint

Per Dozen

No. 3BSM -MINERS'; Weight per dozen about 1½ lbs.....$2.70

HEAVY TIN; Tapered Sides; Heavy Bottom; Double Spout; Heavy Wire Hook and Solid Hinge, Heavily Soldered; Height of Fount 2 , in Diameter of Bottom 1 3/4 in.; Length of Spout 3 1/16 in.; Capacity 7/16 Pint.

Per Dozen

No. 6BSD—DRIVERS'; Weight per dozen about 2 lbs.. .. .. ..$3.50

MINERS'; HEAVY TIN; Tapered Sides; Heavy Bottom; DOUBLE SPOUT, Heavy Wire Hook and Hinge, Securely Soldered; Height of Fount 2 in., Diameter of Bottom 1⅝ in.; Length of Spout 1 9/16 in.; Capacity ⅛ Pint.

Per Dozen

No. FM—FROSTBURG; Weight per dozen about 1½ lbs.. .. .. $1.50

DRIVERS', HEAVY TIN, Shouldered Top; Heavy Bottom, EXTRA LARGE DOUBLE SPOUT; Heavy Wire Hook and Back of Hinge, Heavily Soldered. Height of Fount 3⅛ in.; Diameter of Bottom 1⅝ in.; Length of Spout 3⅞ in.; Capacity ⅛ Pint.

Per Dozen

No. FD—GENUINE FROSTBURG; Weight per dozen about 2½ lbs.....$4.80

One Dozen in a Cardboard Box

MINERS' AND DRIVERS' LAMPS.

FOR LARD OIL OR COTTONSEED OIL.

MINERS'; HEAVY TIN; Bottom and Straight Sides One Piece, with Shouldered Top, DOUBLE SPOUT. Perfectly Fitted from Inside and Soldered. Heavy Wire Hook and Hinge, Securely Riveted; Height of Fount 2 5/16 in.; Diameter of Bottom 1 1/16 in.; Length of Spout 2½ in.; Capacity 3/16 Pint

Per Dozen

No. DM—DUNLAP Weight per dozen about 2 lbs.....$4.50

DRIVERS'; HEAVY TIN, Bottom and Straight Sides One-piece, with Shouldered Top; SINGLE SPOUT, Perfectly Fitted from Inside and Soldered; Heavy Wire Hook and Hinge, Securely Riveted; Height of Fount 3 in., Diameter of Bottom 1½ in.; Length of Spout 4⅝ in.; Capacity ¼ Pint.

Per Dozen

No. DD—DUNLAP; Weight per dozen about 2½ lbs $5.00

FOR SUNSHINE OIL.

HEAVY TIN; Tapered Sides; Heavy Bottoms; DOUBLE SPOUT, Heavy Wire Hook and Solid Hinge, Heavily Soldered

COPPER LINED Throughout and Especially Adapted for Sunshine Oil and Heavy Grease; Can also be used with ordinary Lard Oil

The Copper being a Perfect Heat Conductor melts sufficient Lighting Material to give a Perfect Light. COPPER WIRE HOOK INCLUDED TO RAISE WICK IN SPOUT.

Per Dozen

No. HM—SUNSHINE; MINERS', Height of Fount 3 in.; Diameter of Bottom 1⅝ in.; Length of Spout 2 1/16 in.; Capacity ⅛ Pint Weight per dozen about 2 lbs.. .. .. .$4.00

Per Dozen

No. HD—SUNSHINE; DRIVERS'; Height of Fount 2½ in., ... of Bottom 1 13/16 in.; Length of Spout 3⅛ in.; Capacity 3/16 Pint; Weight per dozen about 2½ lbs $4.50

One Dozen in a Cardboard Box

MINERS' CANDLE STICKS.

Wrought Steel, Hand Forged, Natural Finish; Spring Steel, Riveted Socket, with Sliding Thumb Knob; Length of Point 6 in.; Length over all 8 in.; Forged Steel Hook. Length 2½ in

Per Dozen

No. 5MC—California Pattern. Weight per dozen about 5 lbs .. ..

MINERS' AND DRIVERS' LAMPS.

FOR CARBIDE.

Brass Throughout. Bottom of Lamp is Carbide Container, with Screw Top and Heavy Rubber Washer to make a Gas Tight Joint. Holds 1¾ ozs. Carbide (enough to Burn Three Hours), and supplied with an Extra Carbide Holder with Cover. When the first Charge of Carbide is consumed the Cover from the Extra Container should be transferred to the Holder containing the Residue and the Extra Container substituted, the two charges are sufficient to last about Six Hours. At the extreme Top is the Water Reservoir, the Water Supply is controlled by a Valve from the Top of the Lamp extending through the Reservoir, and to the Bottom of the Carbide Holder. Fitted with a 2¼ in. Round Reflector and a Lava Tip, and each Lamp supplied with a Tip Cleaner; Back fitted with Wire Hook and Prong. Height over all 2⅝ in.; Length from Back of Hook to Front of Tip 3½ inches.

The Two Charges of Carbide Will Burn About Six Hours.

Two Carbide Holders Included with Each Lamp.

No. 133

No. 233

No. 333

Per Dozen

No. 133—BALDWIN; WITH SHUT-OFF WATER VALVE $18.00

No. 233—BALDWIN; WITHOUT SHUT-OFF WATER VALVE 18.00

No. 333—BLACK DIAMOND WITH SHUT-OFF WATER VALVE 15.00

One Lamp in a Cardboard Box. One Dozen in a Carton; Weight per Dozen about 6 lbs.

MAPLE CITY.

Seamless Heavy Brass Carbide Tank; Seamless Upper Tank or Water Container, Threaded to fit Lower Tank, and equipped with Rubber Washer, making the Connection Air-tight; Fitted with Threaded Brass Filler Cap and Brass Hanging Hook.

The Bottom of the Lower Tank is concaved so that the Live Carbide is elevated, which causes the Fluid to assemble around the Rim at bottom, thus bringing a fresh supply of Carbide constantly upward; As the Water drips from the Valve into the Lower Tank and comes in contact with the Carbide, it immediately forms into Gas which passes up and enters into the Lava Tip on end of Burner. The Burner is fitted with a 2⅛ in. Nickel Plated Tin Reflector, which is securely soldered and braced from top of Lamp by a 14 Gauge piece of Brass Wire and which reflects the light and increases the candle power.

Each Maple City Lamp is furnished with an extra Carbide Tank, which enables the Miner to take with him an Extra Charge; This Tank is fitted with a Threaded Cover.

The Maple City Lamp is equipped with the Latest Improved Gas Generating Features.

A solid Brass Tube extends through the Upper Water Tank which leads into the Lower Carbide Chamber; This Tube is equipped with a Threaded Water Regulating Valve, so that the Supply of Water can be regulated to the slightest fraction of a Drop, which enables the User to regulate the size of the Flame.

Per Dozen

No. 110, CM—ACETYLENE; 14 Candle Power; Will burn 3½ to 4 hours with one Charge; Height over all 3½ in.; Diameter 1⅞ in.; Weight per dozen about 9 lbs. $16.00

A Solid Brass Tube extends through the Upper Water Tank which leads into the Lower Carbide Chamber; This Tube is equipped with a Piece of Solid Brass Wire which can be pushed into Position to regulate the Supply of Water to the slightest fraction of a drop, which enables the User to regulate the size of the Flame.

Per Dozen

No. 132—ACETYLENE; 14 Candle Power; Will burn 3½ to 4 hours with one Charge; Height over all 3½ in.; Diameter 1⅞ in.; Weight per dozen about 9 lbs... $16.00

GASKETS FOR MAPLE CITY MINERS' LAMPS.

Per Dozen

No. GM—Gaskets; Diameter Inside 1¾ in.; Diameter Outside 2¼ in.; Weight per dozen about 4 oz..... $0.28

One in a Carton. Twenty-four Dozen in a Case.

MINERS' AND DRIVERS' LAMPS.

BRITE-LITE.

ALL PARTS REMOVABLE AND EASY TO CLEAN FULL INSTRUCTIONS HOW TO OPERATE PRINTED ON EACH CARTON.

Seamless, Heavy Brass Carbide Tank; Beaded Body, with Machine Cut Thread; Seamless Upper Tank or Water Container, Threaded to fit Lower Tank, and equipped with Rubber Washer, making the Connection Air-tight; fitted with Threaded Brass Filler Cap and Brass Hanging Hook.

The Brite-Lite Lamp is equipped with the latest Improved Gas Generating Features: A solid Brass Tube extends through the Upper Water Tank which leads into the lower Carbide Chamber; This Tube is equipped with a Threaded Water Regulating Valve, with a Needle Point at the end so that the Supply of Water can be regulated to the slightest fraction of a drop which enables the user to regulate the size of the flame.

The bottom of the Lower Tank is concaved so that the live Carbide is elevated, which causes the Fluid to assemble around the rim at bottom, thus bringing a fresh supply of Carbide constantly upward; As the Water drips from the Valve into the Lower Tank and comes in contact with the Carbide, it immediately forms into Gas and passes up through a piece of Fine Mesh Brass Wire Strainer Cloth and also through a Heavy Piece of Felt, thus filtering the Gas as it passes through to the Burner Pipe and enters into the Lava Tip on the end of Burner; This filtering process removes all of the Carbide substance and only the pure Gas is discharged from the Tip, thus giving the Brite-Lite Lamp an absolutely Clear White Light; The Burner is fitted with a 2¾ in. Nickel Plated Tin Reflector which reflects the light and increases the candle power.

Each Brite-Lite Lamp is furnished with an extra Carbide Tank which enables the Miner to take with him an Extra Charge; This Tank is fitted with a Threaded Cover and Rubber Washer, making it Air-tight.

No. 10/CM—14 CANDLE POWER; Acetylene; Will Burn 3½ to 4 Hours with One Charge. Height over all 4 in.; Diameter 1¾ in.; Weight per dozen about 6 lbs. ..... Per Dozen, $17.00

One-Twelfth Dozen in a Carton; Twelve Dozen in a Case.

EXTRA PARTS FOR BRITE LITE MINERS' LAMPS.

Per Dozen

No. CLT—Lava Tips; ¼x3/16 in.; Weight per dozen about 6 oz. $0.32

No. G—Gaskets; Diameter Inside 1¾ in.; Diameter Outside 2¼ in.; Weight per dozen about 4 oz. ..... .30

No. FW—Felt Washers; Diameter 1½ in.; Thickness ⅛ in.; Weight per dozen about 2 oz. ..... .38

No. BC—Brass Cloth; Diameter 1½ in.; Weight per dozen about 2 oz. ..... .28

Packed Loose.

EXTRA PARTS FOR MINERS' LAMPS.

REFLECTORS.

Heavy Tin, Retinned, Polished Inside; Center made with a Small Opening to slip over the Tip Holder on Lamp, held by Friction. Concentrates the Light and Prevents the Wind from Extinguishing the Flame.

Nos.	2.	3
Diameter, inches	2¼	3¼
Depth, inches	⅝	1½
Weight per dozen about, ozs.	6	9
Per dozen	$0.44	4.30

Per Dozen

No. 32—Gaskets; Diameter Inside ⅝ in.; Diameter Outside 1 in. Weight per dozen about 4 oz. $0.50

No. LF—Large Felt Washers; Diameter 1½ in.; Thickness 3/16 in. Weight per dozen about 2 oz. ..... .60

No. G—Gauze; 40 Mesh Brass Wire Cloth; Diameter 1½ in.; Weight per dozen about 2 oz. ..... .86

LAVA TIPS.

Per Dozen

No. MLT—5/16x¼ in.; Weight per dozen about 6 oz. $0.24

Packed Loose.

MISSION MANTEL CLOCKS

Solid Oak Cases, Flemish Finish; Movement, 8 Day, Half Hour Strike, Cathedral Gong, 6 inch Wood Dial with Cast Numerals and Fancy Brass Hands; Lattice Work Glass Door; Oxidized Copper Hinges and Latches.

SAN PEDRO

Each

No. SP10—Height 10 inches; Width 12¼ inches ... $5 85

Six in a Case; Case Weighs 90 lbs.

SAN MATEO

Each

No. SM20—Height 20½ inches; Width 9½ inches... ..... $5.85

Six in a Case; Case Weighs 85 lbs.

(Made by the New Haven Clock Co.)

SANTA CLARA

Each

No. SC30—Height 20½ inches; Width 11¾ inches... ..... $5.85

Six in a Case, Case Weighs 85 lbs

CLOCK KEYS

Cold Hard Drawn Brass Shanks; Stamped Brass Bows, Bright Finish.

Per Dozen

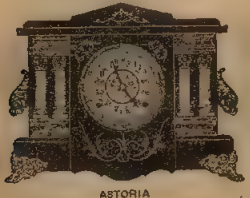
No. K—For Kitchen Clocks; Weight per Dozen 4 ozs $0 80

Loose

No. P—For Parlor Clocks; Weight per Dozen 5 ozs $0 90

ENAMELED WOOD MANTEL CLOCKS

Black Enameled Wood Cases; Fine Piano Finish; Movement, 8 Day; the Hour is Struck on a Cathedral Gong, the Half Hour on a Cup Bell

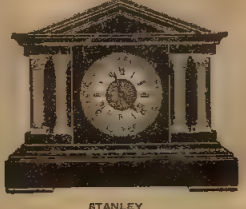


ASTORIA

Each

No. 11—Height 12½ inches; Length of Base 10½ inches, 5 inch Gilt Perforated Dial with Arabic Figures; Plain Glass Front; Green Marbleized Mouldings, Apex Top, Onyx Celluloid Columns; Bronze Finish Cast Metal Trimmings $10 50

One in a Box, Three in a Crate; Crate Weighs 55 lbs.



STANLEY

Each

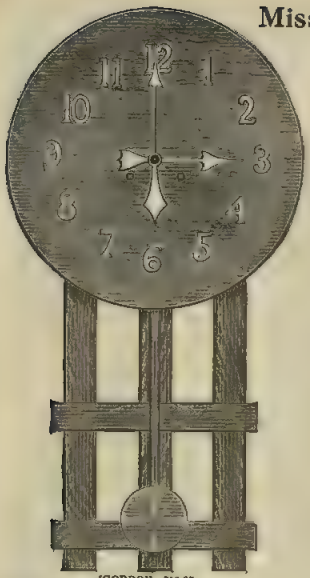
No. 16—Height 14 inches; Length of Base 10½ inches, 5 inch Fancy White Dial with Roman Numerals; Plain Glass Front Polished Black Enamel Throughout Apex Top, Gilt Metal Columns and Gilt Metal Trimmings $12 10

One in a Box Three in a Crate, Crate Weighs 61 lbs

(Made by Sessions Clock Co.)

Mission Regulators, Etc.

PRICES EACH

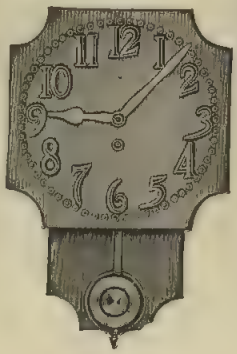


GORDON $13.85.
Solid oak, Flemish finish, 8-day, half-hour strike, cathedral gong; height 32 inches; width 16 inches, 12-inch wood dial, with cast brass numerals and fancy hands
New Haven.

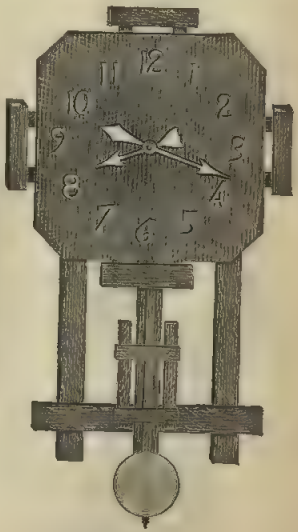
WILLARD No. 8—$14.15.
Mahogany.
Cast gilt trimmings, 8-day, hour and half-hour strikes, cathedral gong, 12-inch porcelain dial, gilt spandrels and bezel, bevel glass; height 17¼ inches.
Waterbury.

No. 2845—$10.85
Flemish finish, 8-day half-hour strike, cathedral gong, 12-inch wood dial, brass hands and numerals; height, 30 inches, width 13 inches.
New Haven.

No. 3 DEN.
Dark oak; 10-inch dial, height, 26½ inches; width, 13 inches
Eight-day, spring, time $12.50
Eight-day, spring, half-hour strike, gong..... 15.00
Waterbury.



DEN -No. 4.
Dark oak, 12 inch dial, height, 17½ inches; width 13 inches
8-day time $11.65
8-day, half-hour strike gong..... 14.15
Waterbury



MADRID—$10.50.
Spanish Mission Hanging.
Eight-day, half-hour strike, cathedral gong, brass hands and figures, height 27½ inches, width, 16½ inches, dial 12¼ inches
New Haven.

GOTHIC AND O. G. WEIGHT CLOCKS.

Prices Each.

SHARP GOTHIC. $12.50

Mahogany veneer, 16 inches wide, 6 inch dial, eight day, spring strike. Height 18⅛ inches.

Seth Thomas

DUCHESS.

Oak. Height 18½ inches, width 12 inches, dial, 6 inches.

8 day, strike $10.15
8 day strike, cathedral gong, . . 10.80
8 day strike, cathedral gong, alarm 11.65
8 day strike, alarm 10.80

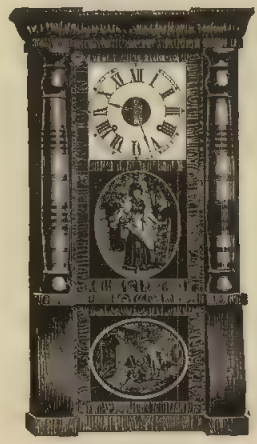
New Haven

SULTAN GILT.

Veneered, gilt columns and arch, 6-inch rococo dial. Height 12¾ inches.

8 day, half hour strike $10.00
8 day, half-hour strike, alarm 10.85

Waterbury

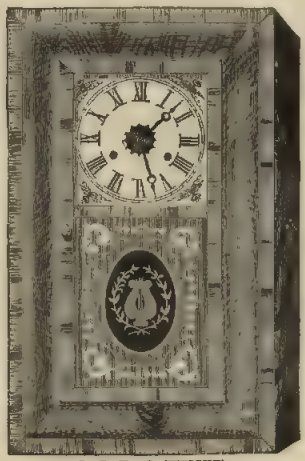


COLUMN.

Rosewood or walnut veneer, polished, rosewood, shell, or gilt columns, eight day weight strike, 8 inch dial. Height, 32 inches.

Rose Column $26.65
Shell Column 27.85
Gilt Column 28.85

Seth Thomas



O. G. No. 2 (WEIGHT).

Mahogany or zebra veneer. Height, 26 inches; width, 15¾ inches, dial, 8 inches.

1 day, weight strike $12.10
1-day, weight, strike, alarm 12.85

New Haven

O. G WEIGHT.

Rosewood or walnut veneer, dial 8 inch. One day, strike. Height 25 inches. Eight day, 8 inch dial. Height 28½ inches.

One Day strike $13.65
Eight Day, strike 21.65

Seth Thomas

SHARP GOTHIC.

(Shelf Clock.)

Rosewood, mahogany or zebra veneer. Height 20 inches, width, 11⅛ inches, dial, 6 inches.

Case "A" sash has cross bar, pendulum not visible)

8 day strike $8.65
8 day strike, alarm 9.40

New Haven

LARGE GOTHIC.

Veneered, 6-inch rococo dial. Height 19½ inches.

8 day, half hour strike $8.35
8 day, half hour strike, alarm 9.15

Waterbury.

CAMP STOVES

TRADE MARK
Triumph
REGISTERED

***DIAMOND**

A Perfect Baker and Good Heater, Shipped Ready to Put Up. Like the Picture. Has Oven and Broiler, Is Nickel Trimmed with a Damper to Regulate the Draft. Guaranteed to Bake as Well as any Large Stove. Burns Wood, Coal, Corn Cobs, etc.

Each

No. 10—Cold Rolled Steel No. 26 Japanned; Length 26 inches; Width 15 inches; Height 11 to top; Two 7 inch Holes. Complete with Six Feet of Pipe. Weight Crated 35 lbs. $11 00

***TRIUMPH**

Solid Cold Rolled Steel No. 26 Japanned Oven Baker with Very Large Baking Capacity. Will Bake as Well as Any Large Stove. Burns Wood, Coal, Corn Cobs, etc.

Each

No. 20—Cold Rolled Steel No. 26; Blued Stamped Steel Doors and Covers; Length of Fire Box 18 inches; Width 11 inches; Height 11 inches; Four 7 inch Holes; Complete with Six Feet of Joint Pipe; Length of Oven 15 inches; Weight Crated 45 lbs. $12 50

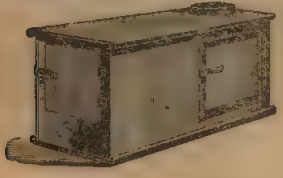
Mizzoo

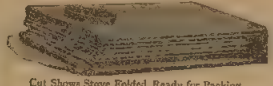
***MIZZOO**

For Wood Only; Suitable for Camps or Summer Kitchens

Each

No. 80—Cold Rolled Steel No. 27, Blued; with Bent Sheet Steel Feet; Stamped Steel Doors; Length 24 inches; Width 11¾ inches; Height 11 inches; Oven 10x8 inches; Fire Box 9x7 inches; Two 6¾ inch Holes, without Pipe; Weight Crated 14 lbs. . . $5.60





Cut Shows Stove Folded Ready for Packing

***OUTING**

Folding; for Wood Only, Will Cook and Bake Equal to a Gas Range; no Screws, Bolts or Rods in the Entire Construction, Every Joint is a Sliding one, and They Always Fit, as Clearance has been Allowed for the Expansion and Contraction of the Metal, can be Taken Down and put up in a Few Minutes, Easily Carried about on Account of its Light Weight and Compactness

Each

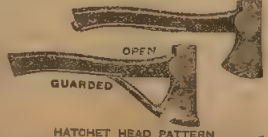
No. 1—Cold Rolled Steel No. 26; Japanned; Length 20 inches; Width 12 inches; Height 12 inches, Oven 10x8 1/4x8 inches; Fire Box 10x11 1/4x13 inches, Size when Folded 28x12x3 inches; with Carrying Strap; without Pipe; Weight 12 lbs. $9 90

One in a Crate

MARBLES SAFETY POCKET AXES

AXE HEAD PATTERN

Solid Tool Steel Blade, Tempered and Polished; Steel Guard, lined with Lead and Fastened to Handle with Spring Hinge When Axe is in Use the Guard folds back into the Handle



HATCHET HEAD PATTERN

Per Dozen

No. M2—Steel Handle; Engraved Hard Rubber Grip; Width of Bit 2⅜ inches; Length of Head 4 inches; Length of Handle 11 inches; Weight 25 ounces $32 80

Two in a Cardboard Box, One Dozen in a Case. Weight 18 lbs.

Per Dozen

No. M4—Pictory Handle, Width of Bit 2¾ inches; Length of Head 3½ inches, Length of Handle 11¼ inches, Weight 24 ounces $39 60

Two in a Cardboard Box; One Dozen in a Case; Weight 19 lbs.

TOOL CABINETS

No. 99½

Each

No. 99½ 22 in. High, 14 in. Wide, 5½ in. Deep, Outside Measurements, Complete with 21 Articles as Described Below, Weight Each Crated 25 Lbs. $17 00

Contents of No. 99½ Tool Cabinet:

1 Saw, 18 in.
1 Steel Nail Hammer,
1 Block Plane,
1 Gas Plier,
1 Flat Nose Plier,
1 Screw Driver, ¼ in.,
1 Socket Chisel, ¾ in.
1 Tool Holder with 10 Tools
1 Brace,
1 Auger Bit, ¼ in.
1 Auger Bit, ½ in.
1 Auger Bit, ¾ in.
1 German Pattern Gimlet Bit,
1 Rose Countersink,
1 Screw Driver, 4 in.,
1 Rule,
1 Whetstone,
1 Oiler,
1 Try Square,
Nail Set,
1 Screw Driver Bit.

One in a Crate

Each

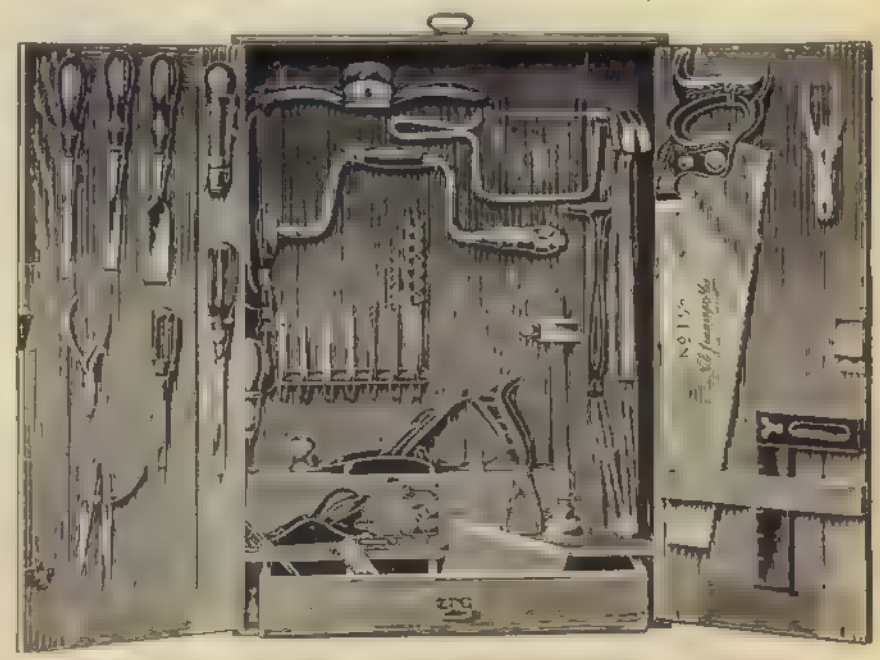
No. 100—24 in. High, 16 in. Wide, ½ in. Deep, Outside Measurements, Complete with 26 Articles as Described Below, Weight Each Crated 35 Lbs. $23 00

Contents of No. 100 Tool Cabinet:

1 Saw, 18 in.
1 Gimlet Bit,
3 Auger Bits,
3 Chisels,
1 Screw Driver,
1 Countersink,
1 Steel Nail Hammer,
1 Tool Holder with 10 Tools,
1 Drawing Knife
1 Plane,
1 Rule,
1 Try Square,
1 Marking Gauge,
1 Nail Set,
1 Can Glue,
1 Brace,
1 Pair Gas Pliers,
1 Pair Flat Nose Pliers,
1 Pair Cutting Nippers
1 Saw File,
1 Oil Whetstone,
1 Oiler

Contents of No. 101 Tool Cabinet

1 Saw, 18 in.,
1 Brace,
3 Gimlet Bits,
3 Auger Bits,
3 Chisels,
2 Screw Drivers,
1 Hack Saw,
1 Hexagon Level,
1 Countersink,
1 Cabinet Scraper
1 Steel Nail Hammer,
1 Tack Hammer,
1 Tool Holder with 10 Tools
1 Drawing Knife (instead of Spoke Shave),
2 Planes,
1 Rule
1 Try Square
1 Marking Gauge,
1 Cup Point Nail Set,
1 Pair Wing Dividers,
1 Pair Gas Pliers,
1 Pair Flat Nose Pliers,
1 Pair Cutting Nippers,
1 Saw File
1 Oil Whetstone,
1 Oiler
1 Can Glue,
1 Coping Saw



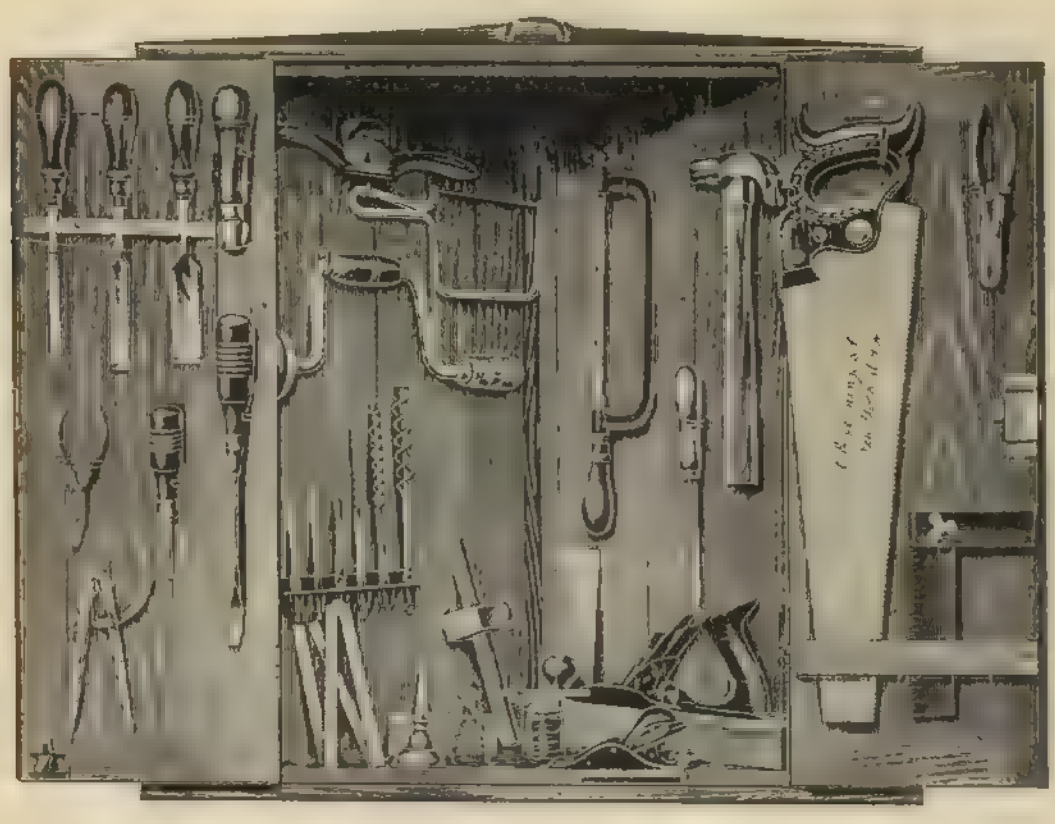
Made of Chestnut, Paneled and Nicely Finished

Each

No. 101—26⅝ in. High, 19⅝ in. Wide, 8⅝ in. Deep, Outside Measurements, Complete with 36 Articles as Described Above, Weight Each Crated 55 Lbs. $31.00

One in a Crate

TOOL CABINETS



Triangular Shape, Will Fit Snugly Into a Corner

Made of Chestnut, Paneled and Nicely Finished

No. 201—25½ in. High, 28¼ in. Wide, 17 in. Deep, Outside Measurements. Complete with 44 Articles as Described Below, Weight Each Crated 73 Lbs..... Each **$34 00**

Contents of No. 201 Tool Cabinet:

1 C. E. Jennings & Co.'s Saw, 18 in.,
1 C. E. Jennings & Co.'s Gimlet Bits,
1 C. E. Jennings & Co.'s Auger Bits,
1 C. E. Jennings & Co.'s Chisels, No. 01,
1 C. E. Jennings & Co.'s Screw Drivers,
1 C. E. Jennings & Co.'s Hack Saw, No. 430,
1 C. E. Jennings & Co.'s Hexagon Level,
1 C. E. Jennings & Co.'s Countersink,
1 C. E. Jennings & Co.'s A1 Cabinet Scraper,
1 Nickel Plated Brace,
1 Steel Nail Hammer,
1 Tool Holder with 10 Tools,
1 Drawing Knife (instead of Spokeshave),
2 Planes,
1 Rule,
1 Try Square,
1 Marking Gauge,
1 Cup Point Nail Set,
1 Pair Wing Dividers,
1 Pair Gas Pliers,
1 Pair Flat Nose Pliers,
1 Pair Cutting Nippers,
1 Saw File,
1 Oil Whetstone,
1 Oiler,
1 Can Glue,
1 Coping Saw, No. 100

One in a Crate

SADDLES.

STOCK.

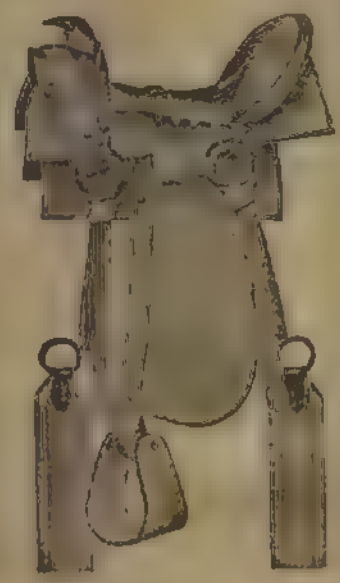
DESCRIPTION.

TREE—Steinway; 14½ in. Seat; Hog Skin Covered.
HORN—Covered and Stitched.
SKIRTS—11½ in. Deep, 23 in. Long; Unlined, Rolled Creased Border.
CANTLE—Roll.
SEAT—Half; With Jockeys, Iron Strainer; Covered Front.
FORKPIECE—Full Covered; 1¾ in Outside Cinch Rigging running over Top.
DOUBLE RIG.
STIRRUP STRAPS—1¾ in.; Rolled Creased Center; Lined at Bottom, Made to Lace.
FENDERS—3½ in. Wide, 15 in. Long; Riveted to Stirrup Straps; Rolled Creased Border.
GIRTH STRAPS—No. 233; 1¾ in. To Tie.
CINCHAS—No. 161; 20 Strand White Cotton, Texas, with Tongues.
STIRRUPS—No. 11, Solid Bent Wood; 1½ in. Wide at Bottom.
RINGS—Covered and Stitched.
LEATHER—Russet Glazed Skirting.

	Each
No. 397—WITH SOLID WOOD FORK TREE.....	$25.50
No. 397½—WITH STEEL FORK TREE.....	29.50

Tie Strings as shown in Cut.
Packed Loose, Weight Each about 17 lbs.

MORGAN HORN.



DESCRIPTION.

TREE—No. 711; Morgan; [illegible] Glued Fork, [illegible]
HORN—Full Leather Covered.
SKIRTS—7½ in. Deep, 15½ in. Long; Unlined, Creased Border.
CANTLE—Roll; Full Leather Covered.
SEAT—Half; Full Leather Covered.
FORKPIECE—Full Covered, with Outside Cinch Rigging running over Top.
DOUBLE RIG.
STIRRUP STRAPS—1¼ in. Made to Buckle.
FENDERS—8 in. Wide, 15 in. Long; Riveted on Stirrup Straps at Top and Bottom; Creased Border.
GIRTH STRAPS—No. 233; 1½ in.; To Tie.
GIRTHS OR CINCHAS—No. 5; 3½ in., White Cotton Back Band Web, with Rings.
STIRRUPS—No. 4; Texas, Sawed Wood; 4 in. Wide at Bottom.
BARS—Plain Sheepskin Covered.
RINGS—Covered and Stitched.
LEATHER—Russet Glazed Skirting.

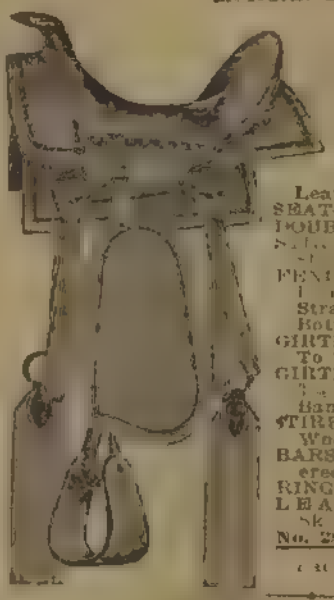
No. 290 [illegible] .....Each, $17.50

[illegible] Weight Each about 15 lbs.

Our Modern Factory is Equipped with the Latest Machinery—Enables us to Produce the Best of Everything in the Harness Line at a Low Price.

SADDLES.

MORGAN HORN.



DESCRIPTION.

TREE—No. 711, Morgan; 14 in. Seat, Glued Fork; Canvas Covered.
HORN—Full Leather Covered.
SKIRTS—7 in. Deep, 15 in. Long; Unlined, Creased Border.
CANTLE—Straight; Full Leather Covered.
SEAT—Full Leather Covered.
DOUBLE RIG.
STIRRUP STRAPS—1 in., with [illegible] Made to Buckle.
FENDERS—8 in. Wide; 14½ in. [illegible] Riveted on Stirrup Straps at Top, with Loop at Bottom; Creased Border.
GIRTH STRAPS—No. 233; 1 in.; To Tie.
GIRTHS OR CINCHAS—No. 5; [illegible] White Cotton Back Band Web, with Rings.
STIRRUPS—No. 4, Texas Sawed Wood, 4 in. Wide at Bottom.
BARS—Plain Sheepskin Covered.
RINGS—Not Covered.
LEATHER—Russet Glazed Skirting.

No. 280 .....Each $16.00

[illegible] Weight Each [illegible] about 13 lbs.

YOUTHS' MORGAN HORN

DESCRIPTION.

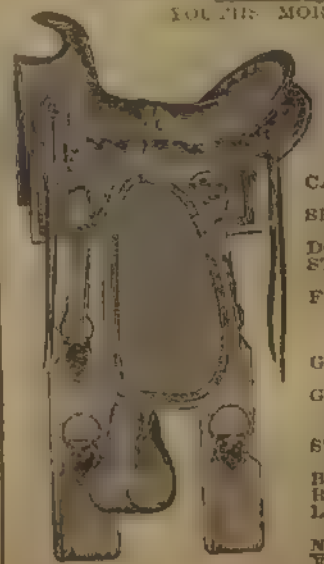
TREE—No. 217; Morgan; 13 in. Seat; Glued Fork; Kip Hide Covered.
HORN—Kip Hide Covered; Half Leathered on Back.
SKIRTS—10 in. Deep, 21 in. Long; Unlined, Embossed Border.
CANTLE—Straight; Kip Hide Covered.
SEAT—Half; Leather Covered.
DOUBLE RIG.
STIRRUP STRAPS—1 in.; Made to Buckle.
FENDERS—8½ in. Wide, 15 in. Long; Riveted on Stirrup Straps at Top, with Loop at Bottom; Embossed Border.
GIRTH STRAPS—Nos. 233; 1 in.; To Tie.
GIRTHS OR CINCHAS—No. 5; 3½ in.; White Cotton Back Band Web, with Rings.
STIRRUPS—No. 2; 3 in.; Bent Wood.
BARS—Leather Covered.
RINGS—Not Covered.
LEATHER—Russet Glazed Skirting.

No. 301 .....Each, $15.00
[illegible] Rings with Tie Strings.
Packed Loose, Weight Each about 15 lbs.

YOUTHS' MORGAN HORN

DESCRIPTION.

TREE—No. 317, Morgan, 13 in. Seat; Glued Fork, Kip Hide Covered.
HORN—Kip Hide Covered, Half Leathered on Back.
SKIRTS—7 in. Deep, 14½ in. Long; Unlined; Embossed Border.
CANTLE—Straight; Kip Hide Covered.
SEAT—Half; Leather, Covered.
DOUBLE RIG.
STIRRUP STRAPS—1 in.; Made to Buckle.
FENDERS—8 in. Wide, 14 in. Long; Riveted on Stirrup Straps at Top, with Loop at Bottom; Embossed Border.
GIRTH STRAPS—No. 233; 1 [illegible] To Tie.
GIRTHS OR CINCHAS—No. 5; 3½ in.; White Cotton Back Band Web, with Rings.
STIRRUPS—No. 2; 2½ in.; Bent Wood.
BARS—Kip Hide Covered.
RINGS—Not Covered.
LEATHER—Russet Glazed Skirting.



No. 302H .....Each, $12.50
Front and Back Rings with

Packed Loose; Weight Each about 12 lbs.

KENTUCKY SPRING SEAT.

No 388

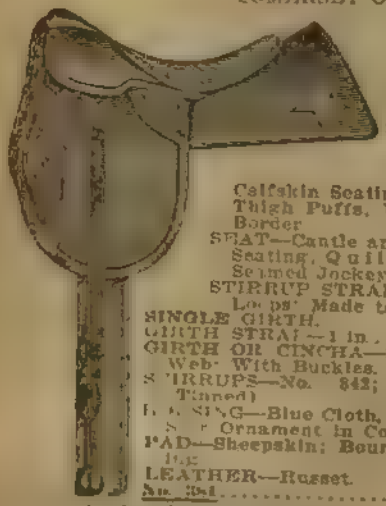
DESCRIPTION.

TREE—No. 226, Somerset; With Leather Spring Bars; 18 in Seat, Double Gullet, Ironed; Broad Cantle, Canvas Covered
SKIRTS—26 in. Deep, 15 in. Wide; Shaped, Creased Edges.
CANTLE—Large Hair Stuffed Roll of Plain Leather
SEAT—Plain Leather Seat with Large Front Roll
SINGLE GIRTH.
STIRRUP STRAPS—1¼ in., with Slide Loops, made to Buckle.
GIRTH STRAPS—1¼ in., To Tie
GIRTH OR CINCHA—5 in. Cotton Web, with 1¼ in. Strap running full length with Rings and Housings.
PAD—Sheepskin; Calf Seating Bound; Carpet Facing
LEATHER—Oiled, Russet.

No. 388—WITH No. 927 IRON FULL LEATHER COVERED STIRRUPS..$41.00
No. 388W—WITH 5 IN. PLAIN WOOD STIRRUPS 41.00

Front and Back Rings, with Tie Strings as shown in Cut.
Packed Loose. Weight Each about 20 lbs.

SOMERSET OR ENGLISH.

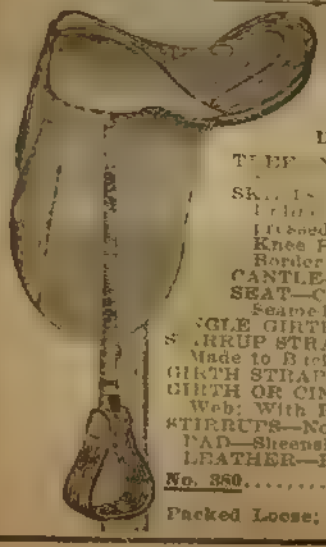


DESCRIPTION.

TREE—No. 228; Somerset; 16 in. Seat; Canvas Covered.
SKIRTS—16 in. Deep, 11½ in. Wide; Unlined; Shaped; Hogskin Impressed; Calfskin Seating; Quilted Knee and Thigh Puffs, Wheeled and Creased Border
SEAT—Cantle and Seat Full Calfskin Seating, Quilted, with Leather Seamed Jockeys
STIRRUP STRAPS—1 in.; With Slide Loops Made to Buckle.
SINGLE GIRTH.
GIRTH STRAP—1 in., To Buckle.
GIRTH OR CINCHA—3 in.; Corded Cotton Web; With Buckles.
STIRRUPS—No. 842; Metal, XC Plate Tinned)
HOUSING—Blue Cloth, Enamel Cloth Bound Star Ornament in Corner
PAD—Sheepskin; Bound with Muslin Facing
LEATHER—Russet.

No. 228 ..... Each, $20.00

Packed Loose; Weight Each about 21 lbs.



SOMERSET.

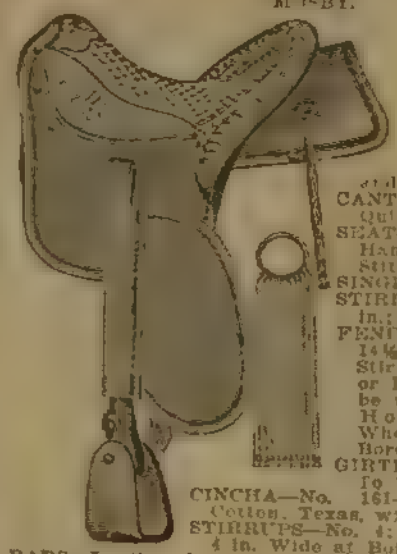
DESCRIPTION

TREE—No. 228; Somerset; 16 in. Seat, Canvas Covered;
SKIRTS—16 in. Deep, 11 in. Wide; Unlined; Shaped, Hogskin Impressed; With Calfskin Quilted Knee Puffs; Wheeled and Creased Border
CANTLE—Calfskin Quilted Roll
SEAT—Calfskin, Quilted; With Seamed Leather Jockeys.
SINGLE GIRTH
STIRRUP STRAPS—1 in.; With Slide Loop; Made to Buckle
GIRTH STRAPS—1 in.; To Buckle.
GIRTH OR CINCHA—3 in.; Corded Cotton Web; With Buckles
STIRRUPS—No. 2; 3 in.; Bent Wood
PAD—Sheepskin; With Muslin Facing
LEATHER—Russet.

No. 380 ..... Each, $17.50

Packed Loose; Weight Each about 10 lbs.

MOSBY.

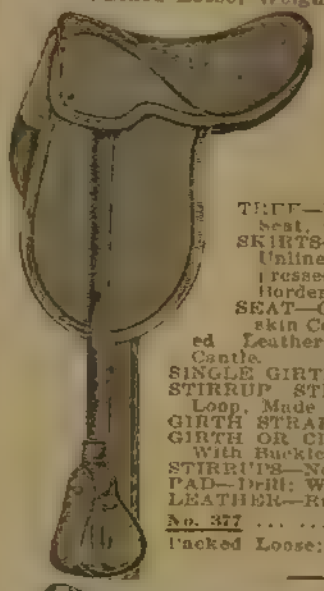


DESCRIPTION

TREE—No. 618, Mosby, 14 in. Seat, Canvas Covered
SKIRTS—16 in Deep, 15 in. Wide; Unlined; Shaped, Hogskin Impressed; Wheeled and Creased Border
CANTLE—Hand Raised and Quilted Roll
SEAT—Calfskin Covered; Hand Raised and Star Stitched; Quilted Front.
SINGLE RIG
STIRRUP STRAPS—1¼ in.; Made to Buckle
FENDERS—8½ in. Wide, 14½ in. Long; Fitted to Stirrup Straps; Long Boot or Loop Sewed on, Can be taken off if Desired, Hogskin Impressed; Wheeled and Creased Border.
GIRTH STRAP—1¼ in.; To Tie.
CINCHA—No. 161—20 Strand White Cotton, Texas, with Rings.
STIRRUPS—No. 4; Plain Wood; Texas; 4 in. Wide at Bottom.
BARS—Leather Covered, extending under Cinch Rigging.
HOUSING—Leather; With Ring and Strap; Wheeled and Creased Border.
LEATHER—Russet Skirting.

No. 650 ..... Each, $25.00

Packed Loose; Weight Each about 13 lbs.



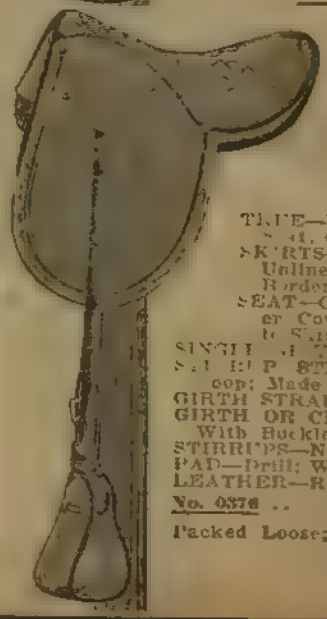
SOMERSET.

DESCRIPTION.

TREE—No. 228; Somerset; 16 in. Seat, Canvas Covered.
SKIRTS—16 in. Deep 11 in. Wide; Unlined; Shaped Hog Skin Impressed; Wheeled and Creased Border.
SEAT—Cantle and Seat Full Calfskin Covered, Quilted; With Seamed Leather Jockeys, Turned Edge Cantle.
SINGLE GIRTH
STIRRUP STRAPS—1 in.; With Slide Loop, Made to Buckle.
GIRTH STRAPS—1 in.; To Buckle.
GIRTH OR CINCHA—3 in.; Cotton Web, With Buckles.
STIRRUPS—No. 2; 3 in.; Bent Wood.
PAD—Drill; With Muslin Facing.
LEATHER—Russet.

No. 377 ..... Each, $14.00

Packed Loose; Weight Each about 9 lbs.



SOMERSET.

DESCRIPTION

TREE—No. 228; Somerset; 16 in. Seat, Canvas Covered.
SKIRTS—15 in. Deep, 10 in. Wide; Unlined; Wheeled and Creased Border
SEAT—Cantle and Seat; Full, Leather Covered and Quilted; Seamed to Skirt Turned Edge Cantle.
SINGLE GIRTH
STIRRUP STRAPS—¾ in.; With Slide Loop; Made to Buckle.
GIRTH STRAP—1 in.; To Buckle.
GIRTH OR CINCHA—3 in., Cotton Web; With Buckles
STIRRUPS—No. 2; 2¾ in.; Bent Wood.
PAD—Drill; With Muslin Facing
LEATHER—Russet

No. 0378 ..... Each $10.00

Packed Loose; Weight Each about 8 lbs.

Foot Ball Goods

OUR OFFICIAL RUGBY FOOTBALL

8492 Rugby football is made from the best grade of real English grain leather. We import this ourselves so as to be sure of the quality, and in consequence we know absolutely that the stock which we offer you is the best the market affords. Our footballs last longer than those not made with genuine English leather. Our footballs kick true. Each **$10.00**

8493 Made from best American leather in same careful manner. Furnished with full sized heavy pure gum bladder, and designed to sell in competition with the best balls of any other make. Each..... **$8.00**

8494 A high grade, medium priced leader. Strong American grain leather, regulation in size and shape and equipped with best grade bladder. Each **$6.00**

8495 A boy's perfect football. Full size and carefully shaped. Made from selected India pebbled leather and furnished with a genuine pure rubber bladder. Each **$3.00**

AMERICAN ASSOCIATION FOOT BALL

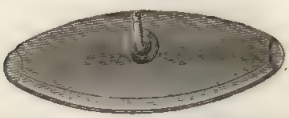
8496 This is the perfect ball and official for use in any game. We guarantee that it is just right in size and shape. It is made from the best grade of English leather, our selection, and the workmanship, to pass our inspection, must be without a flaw. It has strongly reinforced seams and a guaranteed heavy weight, pure gum bladder. Packed in sealed box, with rawhide lace, lacing needle and inflator. Each **$10.00**

8497 Best grade of American grade leather, especially designed for football use. Regulation in construction, and furnished with a pure gum bladder. Each **$7.00**

8498 A full sized ball, carefully shaped and well made. Stock is best selected India pebbled leather and the bladder is pure gum. Each..... **$4.00**

ASSOCIATION BLADDERS

8499 Our special, pure gum, gray, extra heavy Each **$2.50**
8500 Standard quality, pure gum, gray. Each . **$1.60**

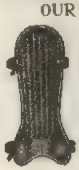


RUGBY BLADDERS

8501 Our special Intercollegiate, pure gum, gray, extra heavy. Each **$2.50**

8502 Standard quality, pure gum, gray. Each **$1.60**

OUR ASSOCIATION SHIN GUARDS



8503 Selected brown tan canvas with rattan ribs, heavy felt lining and strong leather straps. Has special ankle protecting pieces. Per pair **$2.00**

8504 Best selected black tan leather with heavy felt lining. Cane ribs and strong leather straps. Has special ankle protectors. Per pair **$3.50**

RUGBY SHIN GUARDS

8505 Full size, brown tan front, with white back, cane ribs and strong straps Per pair..... **$1.00**

8506 Tan canvas, with cane ribs and white lining, heavy padding and strong straps. Per pair. **$1.50**

8507 Brown leather front, with felt lining, cane ribs and brown leather straps. A strong guard. Per pair..... **$2.00**

RUBBER NOSE GUARDS

8508

8508 Our special with protecting pieces for the cheek bones. Best grade of rubber, light, strong and well ventilated. Elastic at top around forehead Each $2.00

8509

8509 Original Morrill style, with detachable mouthpiece. Each **$1.50**

The Trade Mark of "THE HOUSE OF QUALITY" Means a Square Deal for Everybody.

Foot Ball Goods

8511

FOOT BALL PANTS

8510 Our best grade khaki, with cane thighs, padded hips and knees, lace front, per pair..... ..$4.50

8511 Our best quality tan canvas, cane thighs, extra heavy pads at hips and knees, patent lace front, per pair $3.00

8512 Special tan canvas with full quilt padding, imitation cane thighs, patent lace front, per pair .$2.50

8512

FOOT BALL HEAD HARNESS

8513 Intercollegiate Helmet, specially ventilated, made of best Russian tan calf, padded to afford complete protection, very serviceable. Each..... $6.00

8514

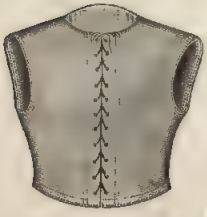
8514 Latest improved Head Harness. Specially ventilated, made of pliable harness leather, carefully moulded, gives complete protection. Each..... .....$5.00

8515 A very serviceable Helmet. Ventilated, made of good leather top, moleskin sides, leather ear protectors. Padded with fine grade of felt. Each $4.00

8515

Foot Ball Shoulder and Elbow Pads

LEATHER COVERED



FOOT BALL JACKETS

8516 Best quality heavy khaki. Sleeves 25 cents extra. Each..... ....$2.00

8517 Best tan canvas. Sleeves 20 cents extra. Each $1.50

ELBOW

SHOULDER

Elbow and Shoulder Pads, covered with tan leather, canvas back, padded with a new material which has all of the softness of curled hair and the durability of felt.

8518 Elbow Pad, per pair.....$2.40

8519 Shoulder Pad, per pair. 2.40

We Are Known Throughout the Country as "THE HOUSE OF QUALITY."

Athletic Supporters

LEATHER ANKLE SUPPORTER

8520 Leather Ankle Supporter. Each $1.00

8521 All Elastic Ankle Supporter Each $2.50

IMPROVED MORTON SUPPORTER

8522 Morton Supporter all cloth, lace front. Each $0.50

THE BIKE JOCK SUPPORTER

8524 All Elastic. Each. $1.50

8525 Elastic with balbriggan fore piece. Each $1.10

Made in three sizes, viz.:

Small will fit waist measure 22 to 28 inches.

Medium, will fit waist measure 30 to 38 inches.

Large, will fit waist measure 40 to 48 inches

Side view of 8523

COMBINATION SUPPORTER, ALL ELASTIC

8523 Each $4.00

Our Supporters are made of the Best Materials, and we guarantee entire satisfaction.

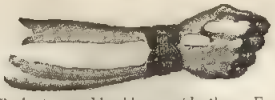
WRISTLET

Invaluable to base ball, tennis and cricket players or during any exercise where the strain is on the wrist Give circumference at smallest and largest part of wrist. The usual length is 3 to 4½ inches.

8526 Silk thread. Each. $2.00

8527 Cotton thread. Each.... ..... 1.50

WRIST SUPPORTERS



8528 Single strap and buckle, russet leather. Each. $0.50

8529 Double strap and buckle, russet leather. Each. .70

KNEE OR ELBOW CAP SUPPORTERS

Give circumference at joint above joint and below, state length from above to center and center to bottom.

8531 Silk thread. Each $4.50

8532 Cotton thread. Each..... 3.30

WRESTLING SUPPORTER

8530 Wrestling Supporter. Heavy black elastic waist bands, black cloth front and back, the only safe supporter for wrestlers and boxers. Each..... $2.00

FOREARM SUPPORTERS

Give circumference at smallest and largest part of arm, and state length.

8533 Silk thread. Each..... $4.50

8534 Cotton thread. Each..... 3.30

When We Say Solid Gold We Guarantee the Goods to be So.

"THE HOUSE OF QUALITY"

HORNS

FOR BICYCLE — Each

No. 2BH—Bell; 2 inches in Diameter; Nickel Plated over Spun Brass, Metal Reed; Length Over All 7¾ inches; Diameter of Bulb 1⅞ inches; Weight 8 ozs. $1 50

Twelve in a Box

FOR MOTORCYCLE

No. 2MB—Bell; 2½ inches in Diameter, Nickel Plated over Spun Brass Metal Reed; Length Over All 9½ inches; Diameter of Bulb 2⅝ inches; Weight 0 ozs. 1.00

Twelve in a Box

MOTORCYCLE — Each

No. 36—Bell and Bend; Nickel Plated over Spun Brass, Diameter of Bell 3 inches, Length Over All 7¾ inches; Metal Reed, Diameter of Bulb 2¾ inches, Weight 7 ozs.... $2.20

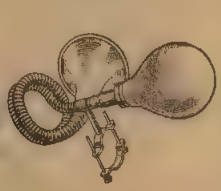
One in a Box

MOTORCYCLE

Spun Brass Bell, Tube and Bend; Highly Polished; Metal Reed Splendid Tone Effect

No. 8—4½ inch Bell; Length Over All 12 inches Diameter of Bulb 2¾ inches; Weight 1¼ lbs. Each $4 60

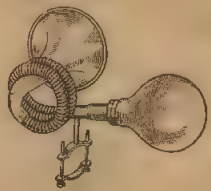
One in a Box



MOTORCYCLE — Each

No. 50—Spun Brass Bell; Non-Flexible Brass Bends; Diameter of Bell 3¾ inches; Diameter of Bulb 3¼ inches; Weight 18 ozs. $3 10

One in a Box



MOTORCYCLE — Each

No. 51—Spun Brass Bell; Non-Flexible Brass Bends, Diameter of Bell 4 inches; Diameter of Bulb 3¾ inches, Weight 1½ lbs. $3 85

One in a box

THE JUNIOR LONG HORN

For Motorcycle

Sounds Like an Electric Horn

The Long Horn is a Perfect Warning Signal, Embracing Qualities Not Found in Any Other Type of Signal. Its Housing is Made of a Good Heavy Grade of Brass; the Projection is of One Piece, Without Seam; All Gears are Cut, All Parts of Contact are Hardened and the Vibrator Runs on a Ball Bearing. To Operate the Long Horn Instantly, Nothing but a Slight Pressure of the Hand or the Elbow is Required, and the Sound May be Varied from a Soft, Pleasing Tone to the Most Powerful and Penetrating Warning Note, by a Variance of Pressure of the Hand of the Operator on the Plunger. As soon as the Plunger is Touched, the Horn Emits a Sound, the Volume of Which is Governed Only by the Pressure Brought to Bear Upon the Plunger. It Works Instantaneously! There is No Battery, Wiring, Flexible Shaft, Friction Pulley or Bulb to Get Out of Order. Neither Rain, nor Sleet, Snow or Mud will Interfere with the Operation of this Horn. It is the Most Economical of all Horns on the Market since it Costs Absolutely Nothing to Operate and Maintain.

No. JMBN—Black and Nickel; Length Over All 4½ inches; Each Diameter of Bell 4½ inches; Net Weight 3¾ lbs. . $16 50 10 00

One in a Wood Box

This is the Latest and Most Satisfactory Motorcycle Horn on the Market.

HORN BULBS

Made of the Best Quality Pure Rubber, Polished Brass Connecting Tubes.

Nos.	1	3	6	12	15
Diameter of Bulbs	2¼	2¾	3¼	3¾	4
Weight Dozen, Lbs.	2	2½	3¾	5	5¼
Per Dozen	$5.50	11 00	16 00	17 00	23 10

Loose

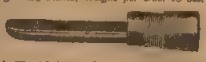
HORN REEDS

Brass Frames, Special Copper Alloy Vibrator Reeds Securely Soldered to Frames.

Nos.	10077	10078	10304	10388	10489
Length, Inches	1⅝	1⅝	2	2⅜	2½
Fits Horns, Nos.	3BH, 4BH, 30	4	6	15-20	34-46-55
Weight Dozen, ozs.	2	6	9	12	16
Per Dozen	$3 20	2 65	3 65	3.85	4 40

Tapered, Fits any Automobile Horn — Per Dozen

No. 10075—Length 2⅝ inches; Weight per Doz. 18 ozs. $4 40



Per Dozen

No. 10304—With Threaded Ferrule to Screw on any Standard Threaded Horn End; Length 3¼ inches; Weight per Dozen 1½ lbs. $5 00

Loose

TOE CLIPS

THEIM ADJUSTABLE

Per Dozen Pairs

No. 7TA—Nickel Plated Wire Throughout. Most Popular Wire Clip Made. Adjustable to Any Sized Shoe; Weight per Dozen Pairs 2½ lbs. $2 75

THEIM COMBINATION

Per Dozen Pairs

No. 1TC—Heavy Nickel Plated Wire. Fastens with One Turn of Three Bolts. Adjustable to Any Sized Shoe. Weight per Dozen Pairs 2½ lbs.. $3 30

One Dozen Pairs in a Box

THEIM STAR

Per Dozen Pairs

No. 6TS—Sheer Steel and Wire, Nickel Plated. Adjustable to Any Sized Shoe. Weight per Dozen Pairs 3½ lbs..... $3 30

THEIM ROAD

Per Dozen Pairs

No. 2R—High Grade Steel, Tempered, Nickel Plated and Polished. Weight per Dozen Pairs 3½ lbs... $1 80

Bottom View

Side View

IDEAL

Per Dozen Pairs

No. 100—Made of Russet Leather, Curved to Give Proper Shape. Adjustable to Any Sized Shoe. Length 12½ inches. Width 1¾ inches. Galvanized Steel Fastener. Weight per Dozen Pairs 2½ lbs... $7 70

One Dozen Pairs in a Box

BICYCLE TOOL BAGS

Each

No. 6—Gents': Black, Brown or Tan, Pebble Leather, Complete with Straps, 7 inches on All Sides. Weight 4 ozs ... $0 90

Each

No. 8—Gents': Black, Brown or Tan, Pebble Leather, Complete with Straps. Length 7½ inches. Weight 3 ozs ... $0 85

Each

No. 12—Gents': Black, Brown or Tan; Pebble Leather; Complete with Straps. Length 7½ inches. Weight 5 ozs ... $0 80

Each

No. 8—Ladies': Black, Brown or Tan Pebble Leather; Complete with Straps. Length 8¼ inches. Weight 5 ozs... $0.80

Loose

MOTOR CYCLE TOOL BOX

Each

No. B—Select Oak; Tanned Leather. Length 9 inches, Width 4½ inches. Height 3¾ inches. Frame is Cold Rolled Steel, Highly Enameled. This Box will Carry Tools and Stand the Hard Vibration of the Motor Cycle and Hold its Original Shape. We Supply Clamps to get any Size Tubing. Weight 1 lb..... $2 75

Loose

"DIAMOND EDGE IS A QUALITY PLEDGE"

HORNS

FOR BICYCLES

Each

No. 2BH Bell, 2 inches in Diameter Nickel Plated Over Spun Brass, Metal Reed; Length Over All 7¾ inches, Diameter of Bulb 1¾ inches, Weight 5 ozs. $1 50

Twelve in a Box

FOR MOTORCYCLE

No. 3MH—Bell; 2½ inches in Diameter, Nickel Plated Over Spun Brass, Metal Reed Length Over All 9½ inches, Diameter of Bulb 2¾ inches Weight 8 ozs 1 80

Twelve in a Box

MOTORCYCLE

Each

No. 30—Bell and Bend; Nickel Plated Over Spun Brass, Diameter of Bell 2 inches; Length Over All 7½ inches; Weight 7 ozs. . . $2 20

One in a Box

MOTORCYCLE

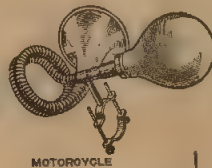
Spun Brass Bell, Tube and Bend, Highly Polished; Metal Reed Splendid Tone Effect.

Each

No. 4—4½ inch Bell, Length Over All 12 inches, Diameter of Bulb 2¼ inches, Weight 1¼ lbs. $4 40

No. 6—6 inch Bell, Length Over All 15 inches; Diameter of Bulb 3¼ inches; Weight 2 lbs 5 50

One in a Box

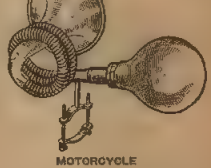


MOTOROCYCLE

Each

No. 50—Spun Brass Bell; Non-Flexible Brass Bends Diameter of Bell 3¾ inches Diameter of Bulb 3½ inches. Weight 18 ozs . . $3 10

One in a Box



MOTORCYCLE

Each

No. 51—Spun Brass Bell; Non-Flexible Brass Bends, Diameter of Bell 4 inches, Diameter of Bulb 3¾ inches: Weight 1¾ lbs. . . . $3.85

One in a Bulb

SIREN

Siren Horns Will Clear the Road Further Ahead and Clear it More Quickly than any other Alarm Made. It Contributes Greatly to the Safety of both the Rider and the Pedestrian. A Heavy Cord, attached One End to and the Other on the Siren and the Other on the Handle Bar is pulled with the Thumb. This brings the Roller in contact with the Front Tire and the Alarm Is Now Sent a Volume of Melodious Yet of great Intensity. The Interior Drum revolves on Double Ball Bearings running on Cones and Cups case Hardened Ground and Polished. These are Adjustable for Wear.

The Outer Drums are Polished Brass, Nickel Plated. The Spindle running on the Tire are Interchangeable and Replaceable. Two Parts are All Carefully Assembled and Inspected. The Finish is the Best Grade of Plating Throughout. Cases Made of Stamped Sheet Metal. Black Japanned Steel Brackets. Ball Bearings Provided with Cord or Chain so that when operated the Roller Brought in Contact with Tire of Wheel Producing a Loud Penetrating Warning

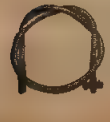
LA DIRECTE—FOR MOTORCYCLES

Each

No. LD—Size of Case 4x1¾ inches, Nickel Plated- Black Rubber Roller; Weight 15 ozs. $3 65

One in a Box

FLEXIBLE HORN TUBES



BRASS

Each

No. B40⅜—40x⅜ inch; Weight 12 ozs. . $1.35
No. B50⅜—50x⅜ inch; Weight 14 ozs. . 1.60
No. B60⅜—60x⅜ inch; Weight 16 ozs. . 1.80

NICKEL PLATED

No. NP40⅜—40x⅜ in.; Weight 12 ozs 1 65
No. NP50⅜—50x⅜ in., Weight 14 ozs 1 90
No. NP60⅜—60x⅜ in.; Weight 16 ozs. 2 20

Loose

HORN BULBS

Made of Best Quality Pure Rubber

Polished Brass Connecting Tubes.

Nos.	4	8	8	10	15
Diameter of Bulbs	2¼	2¼	3¼	3¼	4
Weight Dozen, Lbs	2	2½	3¾	5	6¼
Per Dozen	$8 80	13 00	16 50	17.00	22 30

Loose

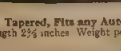
HORN REEDS

Brass Frames, Special Copper Alloy Vibrator Reeds Securely Soldered to Frames.

Nos.	10077	10078	10304	10308	10453
Length, Inches	1¼	1½	2	2¼	2½
Fits Horns, Nos.	3BH,48H,30	4	6	15-40	34-46-65
Weight Dozen, Ozs.	3	6	9	12	15
Per Dozen	$2.20	2.65	3.65	3.85	4.60

Tapered, Fits any Automobile Horn — Per Dozen

No. 10078—Length 2½ inches Weight per Dozen 18 ozs — $2 60



Per Dozen

No. 10304—With Threaded Ferrule to Screw on any Standard Threaded Horn End; Length 3¼ inches; Weight per Dozen 1¼ lbs $5.00

Loose

HORN VALVES

Made of Malleable Iron. The Butterfly Gates are Closely Fitted on Heavy Brass Pins, which will Not Rust and Prevent the Free Action of the Gates. The Direct Passage to Horn and Cutout Affords Maximum Pressure on Horn and Perfect Relief to Muffler.

BORED SMOOTH—FOR STEEL TUBING

Nos.	H1¼	H1½	H1¾	H2	H2¼	H2½
Diam. of Pipe Hole, In	1¼	1½	1¾	2	2¼	2½
Weight, Lbs.	1¾	2	2	2½	3	3
Each	$1.80	2.00	2.20	2.50	2.85	2.90

Any of the above Valves can be Bored out One Quater of an Inch More if the User so Desires.

THREADED FOR IRON PIPE

Nos.	HT1¼	HT1½	HT2
Iron Pipe Size, In	1¼	1½	2
Weight, Lbs	1¾	2	2½
Each	$2.20	2.50	2.75

Loose

FOOT PEDALS

FOR CUT OUT VALVES

Each

No. 23FP — Brass Plated; Pedal can be locked so Muffler can be left Open if Desired; Complete, with Spring; Weight, ½ lb. $0.80

FOR HORN VALVES

Each

No. 20FP — Polished Brass; can be used anywhere a small Pedal is Desired, Weight, ½ lb. $0.55

Loose

CUT OUT VALVES

Made of Malleable Iron. The Butterfly Pin is made of Brass to Prevent Rusting and Consequent Sticking of Valve. Made with a Split Body, so can be Easily Attached to any Pipe. Attachment is made by Cutting V-shaped Hole in Exhaust Pipe and Clamping in Position.

FOR STEEL TUBING—BORED SMOOTH TO ACTUAL SIZE

Nos.	C1¼	C1½	C1¾	C2	C2¼	C2½
Diam. of Pipe Hole, In.	1¼	1½	1¾	2	2¼	2½
Weight, Lbs.	1½	1¾	2	2	2½	3
Each	$1.25	1.35	1.50	1.60	1.65	1.80

Any of the above Cutouts can be Bored out One Quarter of an Inch More if the User so Desires.

FOR IRON PIPE—ROUGH

Nos.	CR1	CR1¼	CR1½	CR2
Iron Pipe Size, In	1	1¼	1½	2
Weight, Lbs	1¾	1¾	2	2½
Each	$1.10	1.25	1.35	1.50

Loose

CUT OUT VALVE SETS, COMPLETE

Set consists of One Cut Out Valve, One No. 23FP Foot Pedal, Two Japanned Pulleys and Five Feet of Chain and Spring.

It will be found a Great Convenience to Buy Cut Out Valve Sets Complete.

	Per Set
No. CS1¼ —Fits 1¼-in. Steel Tubing; Weight, 3-lbs	$2.20
No. CS1½ —Fits 1½-in. Steel Tubing, Weight, 3 lbs.	2.50
No. CS1¾ —Fits 1¾-in. Steel Tubing; Weight 3 lbs.	2.65
No. CS2 —Fits 2-in. Steel Tubing, Weight, 3½ lbs.	2.80
No. CS2¼ —Fits 2¼-in Steel Tubing; Weight, 4lbs.	2.90
No. CS2½ —Fits 2½-in. Steel Tubing; Weight, 4 lbs.	3.00
No. CRS1 —Fits 1-in. Iron Pipe. Weight, 3 lbs.	2.20
No. CRS1¼—Fits 1¼-in. Iron Pipe; Weight, 3 lbs.	2.35
No. CRS1½—Fits 1½-in. Iron Pipe; Weight, 3½ lbs.	2.50
No. CRS2 —Fits 2-in. Iron Pipe; Weight, 3½ lbs.	2.60

PEDAL CHAIN

Per Foot

No. 2PC—Coppered Steel; Strong and Durable; Illustration shows Chain Actual Size. Will Run Easier and Last Longer than a Wire Cable. Weight per Foot, 2 ozs. $0.10

Each Connection Usually Requires 5 Feet of Chain

PEDAL SPRINGS

Per Dozen

No. 2PS—Length, 4½ Inches; Diameter, ½ inch. Made especially for Horn and Cutout Valve Use; Weight, per Dozen, 5½ lbs. $0.90

Loose

CHAIN PULLEYS

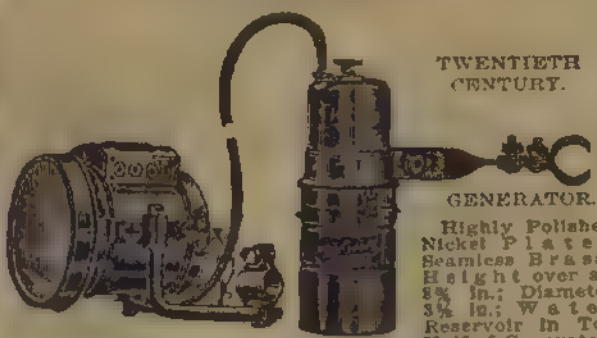
Per Dozen

No. 7½ Made of Steel, Heavily Japanned, 3 inch, Weight, per Dozen, 1½ lbs. $0.90

One Dozen in a Box

MOTORCYCLE LAMPS.

ACETYLENE.



TWENTIETH CENTURY.

GENERATOR.

Highly Polished Nickel Plated Seamless Brass; Height over all 8¾ in.; Diameter 3½ in.; Water Reservoir in Top Half of Generator; Water Supply Controlled by Screw Button on Top of Reservoir, connected with Needle Valve; Carbide Container fitted with Sifter Bottom Basket, holds about 10 oz. of Carbide; When in use the Residue from the Carbide Sifts to the Bottom of Carbide Chamber; Holds sufficient Carbide and Water to Burn about 10 Hours; Top and Bottom of Generator Fastened together by Clips, engaging to Extensions set at an Angle, and has the same effect as if Threaded; Rubber Connecting Tubing, 3 ft. Long, included, to conduct the Gas from the Gas Exit on Top of the Generator to the Burner Tip; Supplied with Bracket to fasten Generator to Cycle Frame.

SEARCHLIGHT

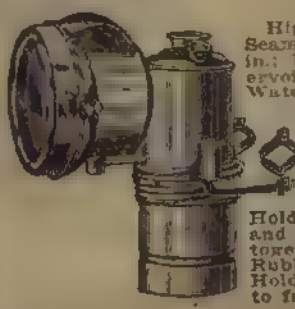
Outside Highly Polished Nickel Plated Brass; Inside Black Oxidize Finish; Height over all 5¾ in.; Length over all 5½ in.; Fitted with 4 in. Mirror Lens Reflector and ⅜ ft. Burner; Left Side of Front Door Frame attached to Body of Lamp with a Hinge; The Right Side is fitted with Two-fingered Prong that passes over a Bolt, with a Knurled Edge Nut to fasten Door; 4¼ in. Plate Glass Front; Two Bracket Receptacles on Sides, with Square Heads to hold Brackets securely; Two Brackets 6 in. Long, with Loops that will fit the Handle Bars or Extension Forks of any Style Motorcycle.

No. 102M—COMPLETE; Weight each about 15 lbs...$13.00

Searchlight and Generator Packed Separately in Corrugated Paper Boxes; Brackets and Tubing Packed Loose.

OLD SOL.

GENERATOR.



Highly Polished Nickel Plated Seamless Brass. Height over all 7 in.; Diameter 2¾ in.; Water Reservoir in Top Half of Generator; Water Supply controlled by Screw Button on Top of Reservoir, connected with Needle Valve; Carbide Container fitted with Perforated Brass Tube to distribute the water; Brass Plate and Spring to prevent the Carbide from rattling. Holds about 8 oz. of Carbide; Top and Bottom of Generator Screwed together and made Gas Tight with Rubber Washer; Heavy Cast Brass Holder on the center of Generator to fasten Brackets.

SEARCHLIGHT

Outside Polished Nickel Plated Brass; Inside Black Oxidized Finish; Height over all 7¾ in.; Length over all 6 in.; Fitted with 2¼ in. Highly Polished Reflector and ⅜ ft. Burner; Left Side of Front Door Frame attached to Body of Lamp with a Hinge, the Right Side is fitted with Two Fingered Prongs that pass over a Bolt with a Knurled Edge Nut to Fasten Door; 3½ in. Plate Glass Front; Headlight and Generator fastened together; Gas is conducted to the Burner from the Generator through a Heavy Brass Tube.

Brackets Nickel Plated and Highly Polished; Extend 6 in.; Fitted with Bolts and Nuts to fasten to Handle Bars; WILL FIT ANY STYLE HANDLE.

Each

No. 3M—COMPLETE; Weight each about 3½ lbs...$7.50

One Complete Lamp in a Cardboard Box; 24 in a Case.

MOTORCYCLE SEARCHLIGHTS.

OUTSIDE Highly Polished Nickel Plated on Brass; Inside Lacquered Black Finish; Height over all 6½ in.; Depth 6 in.; Fitted with 4 in. Mangin Mirror Lens of Unusual Power; ⅜ ft. Burners; Hinged Door, fitted with a Two Fingered Prong that passes over a Bolt with Knurled Edge Nut to fasten Door; 5½ in. Plate Glass Front; Gas is Conducted to Burner from Generator through a Rubber Tube.

Each

No. 1M—SEARCHLIGHT only; About 400 Candle Power; Wt. each about 3½ lbs.....$6.00

Outside Highly Polished Nickel Plated on Brass; Inside Lacquered Black Finish; Height over all 9½ in.; Depth 9 in.; Fitted with a 6 in. Special Ground Mangin Mirror Lens; ⅜ ft. Burner; Hinged Door, Fitted with a Two Fingered Prong that passes over a Bolt with Knurled Edge Nut, to fasten Door; 8½ in. Plate Glass Front. Gas is Conducted to Burner from Generator through a Rubber Tube. The most powerful Lamp of its size. Built for the peculiar needs of the Motorcyclist in Rapid Flight; a Splendid Lamp for Runabouts and Light Automobiles.

Each

No. 8M—SEARCHLIGHT only; About 1500 Candle Power; Weight each about 3½ lbs.....$9.10

One in a Cardboard Box.

‡ SEARCHLIGHT.

Outside Highly Polished Nickel Plated on Brass, Inside Lacquered Black Finish, Height over all 6½ in., Depth 6 in., Fitted with 4 in. Mangin Mirror Lens; ⅜ foot Burner, Hinged Door fitted with a Two Fingered Prong that Passes over a Bolt with Knurled Edge Nut to fasten Door; 5½ in. Plate Glass Front. Gas is Conducted to Burner from Generator through a Rubber Tube. A Simple Flat Socket with a Set Screw which permits this Lamp being fitted to such a special bracket as some Motorcycle manufacturers include with the equipment of their machine. No bracket included.

‡ No. 2M—*SEARCHLIGHT only; About 400 Candle Power; Weight each about 3½ lbs.*.....$6.00

One in a Corrugated Paper Box.

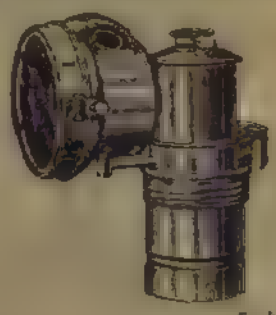
‡MOTORCYCLE LAMPS.

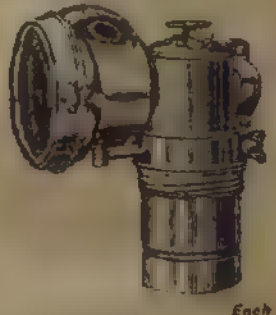
ACETYLENE.

OLD SOL.

GENERATOR—Highly Polished Nickel Plated on Brass; Height over all 7 in., Diameter 2¾ in.; Water Reservoir in the half of Generator, Water supply controlled by Screw button on top of reservoir, connected with Needle Valve, Carbide container fitted with Sifter Bottom Basket, Holds about 8 ounces of Carbide, When in use the residue from the Carbide sifts to the bottom of Carbide Chamber. Holds sufficient Carbide and water to burn about 7 hours on one charge, may be repeatedly relighted without refilling. Top and bottom of Generator screwed together and made Gas Tight with Rubber Washers.

HEADLIGHT—Outside Highly Polished Nickel Plated on Brass, Inside Lacquered Black Finish, Height over all 7¾ in., Depth 6 in., fitted with 3 in. Mangin Mirror Lens; ⅜ foot Burner, Hinged Door fitted with a Two Fingered Prong that Passes over a Bolt with Knurled Edge Nut to fasten Door, Has 3½ in. Plate Glass Front; Headlight and Generator fastened together, Gas is conducted to the Burner from the Generator through a heavy Brass Tube. About 100 candle power.





Each

‡ No. 4M—*Complete; Has Flat socket at Back with Set Screw to fit all Standard Flat Brackets. No Bracket included*..$5.00

Each

‡ No. 5M—*Complete; High Grade Bicycle Gas Lamp Supplied with a Band and Bicycle Bracket*..$5.00

One in a Cardboard Box; Weight Each about 2¾ lbs.

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

GENERATORS.

ACETYLENE GAS.

OLD SOL.

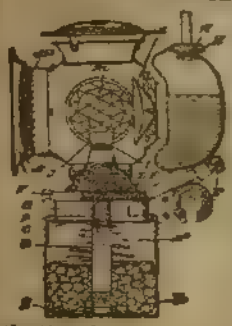
Highly Polished Nickel Plated on Brass; Height over all 8½ in.; Diameter 3¾ in.; Water Reservoir in top half of Generator; Water supply controlled by screw button on top of Reservoir; connected with Needle Valve; Carbide Container fitted with Sifter Bottom Basket, holds about 12 oz. of Carbide; When in use the residue from the Carbide sifts to the bottom of Carbide Chamber. Holds sufficient Carbide and Water to burn about 3 hours; May be repeatedly relighted without refilling. Top and Bottom of Generator screwed together and made Gas tight by Rubber Washer; Furnished with Brackets to fasten to any Standard size Frame Tubes

No. 5M—Generator with Brackets; Weight each about 2 lbs.. $7.70

One in a Cardboard Box.

REPAIRS FOR SOLAR LAMPS.

MODEL L



ALWAYS ORDER BY NUMBER.

ALL PARTS WEIGHING LESS THAN 1 LB AND CAN BE SENT BY MAIL.

IN ORDERING KINDLY REFER TO CROSS SECTION CUT AND ORDER BY NUMBER

Sectional View

	Each
No. B—Screen Tube	$0.15
No. B1—Screen Tube Plate	.15
No. B2—Carbide Spring	.15
No. D—Rubber Washer	.07
No. C—Washer Plate	.07
No. C 1—Washer Plate Nut	.07
No. E—Fibre Wick	.07
No. F—Wick Tube Cap	.07
No. G—Water Valve	.60
No. G1—Water Valve Washer and Nut	.07
No. H—Filler Cap	.15
No. H1—Filler Cap Washer	.02
No. I—Tip Holder	.15
No. J—Tip	.15
No. K—Ratchet Screw	.15
No. L—Reflector	.15
‡No. M—Lens, Red or Green	.22
No. M1—Lens Doors	.30
No. M2—Lens	.38
No. N—Bracket Complete	1.12
‡No. O—Bracket Side R H	.22
‡No. O1—Bracket Side L H	.22
No. P—Clamp Thumb Screw	.15
No. Q—Clamp Thumb Screw Nut	.05
No. R—Carbide Tank	.60
No. S—Ratchet Screw Thumb Nut	.07
No. T—Pivot Bolt	.15
No. U—Pivot Bolt Nut	.07
No. V—Ratchet Arm	.22
‡No. W—Bracket Lining	.07

BICYCLE LAMP BRACKETS.

Heavy Drop Forgings, Highly Nickel Plated and Polished; Made to fit on the Handle Bar.

Length over all 3⅝ in., Fitted with Bolt that passes through Band on Bars and displaces Bolt that is furnished with Handle Bar.

Per Dozen

No. 1C—FOR CHICAGO AND IDEAL BARS $7.00

Length over all 2¾ in.; Fitted with a Nut with a Sleeve End to increase the Gripping Surface, and displaces Nut that is furnished with Handle Bar

Per Dozen

No. 2H—FOR KELLY AND HUSSEY BARS $7.00

Length over all 3¾ in.; Fastened to Bar by passing the Handle Bar Expander Stem through an Eye in the Bracket.

Per Dozen

No. 3D—FOR DIRECT STEIN HANDLE BARS $7.00

One Dozen in a Cardboard Box

Weight per Dozen about 1 lb

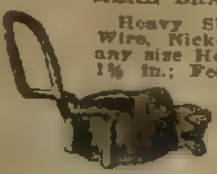
FORK BRACKET

Heavy Steel, Nickel Plated; Can be Adjusted to any Height on Fork and fits Any Size Fork; Fastens with Thumb Screw; Felt Lined where Bracket comes in contact with Frame.

Per Dozen

No. 16—Weight per dozen about 3 lbs..... $1.80

HEAD BRACKET.



Heavy Sheet steel and Wire, Nickel Plated; Fits any size Head from 1⅝ to 1⅞ in.; Felt Lined where Bracket comes in contact with Frame; Fastens with Thumb Screw.

Per Dozen

No. 14—Weight per dozen about 2 lbs. $1.90

Packed Loose

For Forward Extension Bars. Will Fit on Any Gas Lamp that Uses a Combination Bracket

Made from Heavy Steel, Nickel Plated; Length over all 5 in.; Forward Extension 1½ in.; Will Fit any size Bicycle Head.

Per Dozen

No. 5—Weight per dozen about 3 lbs. $1.00

One Dozen in a Cardboard Box

BRACKETS.

Wrought Iron, Nickel Plated; ¼ in. Diameter; With Top Nuts and End Clamps to fasten to machine

Per Pair

No. A—For New Era, MM, American, Marvel, Sears, Grey Hound, Haverford, Curtiss, Bradley, Indian, N. S. U., R. S. and Wagner Motorcycles ... $1.

Per Pair

No. B—For Thor, Yale, Pierce, Racycle, Thiem, Flanders and all V-shaped Handle Bars $1.60

Per Pair

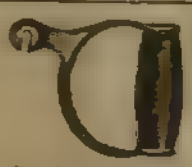
No. AB—For Flying, Merkel, Detroit, Minneapolis, Armace, Pope, Yale, Harley, Davidson and Reliance Motorcycles $1.60

Per Pair

No. ASB—For Excelsior Motorcycles $1.80

Packed Loose; Weight per Pair about ¾ lb.

LAMP HANDLES.



Brass Casting, Heavily Nickel Plated and Polished. Length from Back of Grip to Front of Serrated Holder that fastens to the Lamp, 4¾ in.; Hand Grip made of Heavy Black Celluloid 3¾ in. Wide, 1¼ in. Thick

Per Dozen

No. 4 ..... $15.00

Packed Loose; Weight per Dozen about 8 lbs

SPRING ATTACHMENT

FRONT FORK.

To Relieve the Shock on the Hands, Handle Bars and Fore Part of Bicycle.

Fitted to the Bicycle by removing the Front Wheel and passing the Axle of the Attachment through the Axle Holes of the Front Fork, then fasten the Clamp at the end of the Nickel Plated Helical Spring around the Front Fork, with the Spring on the Rear side of the Fork; the Wheel is then fastened in the regular way through Axle Holes in the End of Arm of the Attachment.

No. 30—Nickel Plated and Fitted with Ball Bearings; Spring is 3 in. Long; Arm 4½ in. Long Fits any Bicycle....Per Pair, $3.70

One Pair in a Paper Box; Weight per Pair about 1 lb

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

BICYCLE SADDLES.

SIMMONS LACLEDE.

Stylish, Graceful, Durable, Comfortable.

One Piece Leather Tops, Split Leather Bottoms, Sewed Around Entire Edge and in Center; Laminated Wood Base, Heavily Padded with Hair, ¾ in. Steel Spring, Nickel Plated, Fastened with Bolts and Nuts; Clamp for Fastening Saddle to Seat Post included with each Saddle

MEN'S; Concaved Center; Truss Spring; 9 in. Long, 7 in. Wide.

Each

No. 410A—GRAIN LEATHER TOP.....$1.00

No. 410—SPLIT LEATHER TOP. .90

MEN'S; Nickel Plated Springs, made of No. 3 Spring Wire, Front and Rear Coil Springs No. 7 Spring Wire.

Each

No. 410/C8—SPLIT LEATHER Top. Weight each about 2 lbs.$1.30

No. 1110 C8—GRAIN LEATHER Top. 9 in. Long, 7¾ in. Wide. Weight each about 1¼ lbs... 1.40

Suspension Tops, made of the Best Imported Leather; Frames and Springs of Best Steel, Black Enameled, with Bolt for Adjusting Tension of Top; Improved Seat Post Clamp with each Saddle

Each

No. 115—"ROADSTER"; 11 in. Long, 7¾ in. Wide; 7/8x4 in. Truss and Frame with Two Spiral Springs at Rear and Coil at Nose. Weight each about 2 lbs.....$2.10

Each

No. 114—"SPECIAL"; 10¾ in. Long, 7¾ in. Wide; 7/8 in. Double Truss Frame, with Coil at Rear; Wgt. each abt. 1¾ lbs.$2.80

Each

No. 123—"RACER" TYPE; 10¾ in. Long, 7¾ in. Wide, ¼ in. Single Truss Frame; Weight about 1 lb. $1.70

Wrapped in Paper.

MOTORCYCLE SADDLES.

MESINGER

STANDARD.

Top is made of Two Layers High-grade Leather, Oak Tanned; Suspension Top 14½ in. Long, 13 in. Wide, Stretched in form and will Positively Hold its shape. Pommel is Narrow so as not to interfere with Free Leg Movement; Springs Black Enamel Finish; Equipped with Patent Device which checks rebound and in that manner minimizes the sideway

Each

No. 1129—Wgt. each abt. 6 lbs..$8.50

One in a Paper; Packed Loose

Tops and Bottoms are of Best Grade Grain Leather, Oak Tanned, Sewed around Entire Edge and in Center; Laminated Wood Base, Seat is Padded with Curled Hair and curved on the Style of a Horse Back Saddle, to prevent slipping forward or backward; Springs are equipped with Patent Device which checks the rebound and in that way minimizes the sideway.

CAVALRY.

Each

No. 1131—13½ in. Long, 14 in. Wide; Weight each abt. 6 lbs.$11.00

CAVALRY.

Each

No. 1130—15 in. Long, 12 in. Wide; Weight each about 5 lbs.....$9.00

Wrapped in Paper; Packed Loose.

No. 118—MOTORCYCLE. Double Leather Top, 15¾ in. Long, 12 in. Wide; ¾x4 in. Spiral and Cushion Springs at Front and Rear; Stamped Steel Truss. Extra Strong Universal Clamp. Weight each about 6¾ lbs.. $7.50

Above Saddles Wrapped in Paper. Packed Loose

SADDLE SPRINGS.

PERFECTION

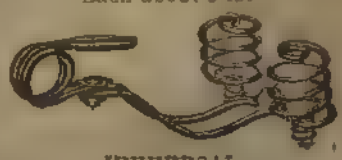
Truss, No. 3 Spring Wire; Front and Rear Coils, No. 7 Spring Wire Fastens with Bolts and Nuts; Will fit any Wood Base Saddle on the Market.

Each

No. 110J—BLACK JAPANNED..$0.80

No. 110N—NICKEL PLATED... .90

Two in a Cardboard Box; Weight Each about 2 lbs



UNIVERSAL

Truss, No. 3 Spring Wire; Coils, No. 7 Spring Wire; Coils Detachable. Fastened with Bolts and Nuts. Adjustable in Length and Width to fit any Standard Size Bicycle Saddle.

Each

No. 10J—BLACK JAPANNED...$0.45

No. 10N—NICKEL PLATED . .45

One in a Cardboard Box Weight Each about 20 oz

SADDLE CLAMPS.

CHALFANT.

Steel, Nickel Plated. This Clamp does away with Seat Post entirely when it is desired to reduce the reach.

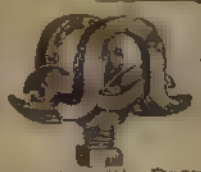
Per Dozen

For DOUBLE SPRING SADDLE.

No. 10D1—For 1 in. Tube Bicycle $7.00

No. 10D1½—For 1½ in. Tube Bicycle 7.00

One half Dozen in a Cardboard Box, Weight per Dozen about 3 lbs.



Per Dozen

No. 70—Drop Forged, Nickel Plated; for Double Springs ...$1.70

One Dozen in a Cardboard Box Wgt. per Doz. about 2¾ lbs

COASTERS.

FOLDING

Sheet Steel, Bright Finish; Fastens to Fork Side with Bolt and Nut. Fits any size Fork. Length over all 3 in.; Width ⅝ in.; Extends 2¾ in. from Fork.

Per Dozen Pairs

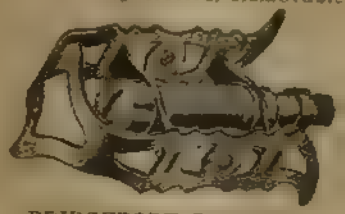
No. 8F—FOLDING $2.60

One Dozen in a Cardboard Box.

Packed in Pairs for Right and Left Sides; Weight per Dozen Pairs about 2 lbs.

BICYCLE PEDALS.

Special Hardened Steel, Nickel Plated and Polished Sides and Braces; Two Braces pass through Slots in Sides and Securely Riveted; ½ in. Hardened Steel Pin, 20 Thread, Hexagon Base; Top of Sides Corrugated to Prevent Foot from Slipping. Ballbearing at both ends of Barrel; Balls and Cones Hardened. Fastened with Washer and Lock Nut; End Cap Slotted, Removable



BRIDGEPORT RAT TRAP

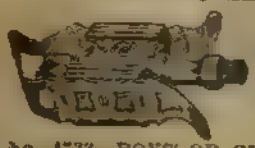
Per Pair

No. 740—MEN'S RAT TRAP....$1.50

BRIDGEPORT COMBINATION, WITH RUBBERS

No. 741—MEN'S COMBINATION $1.70

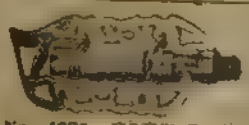
No. 743—LADIES' COMBINATION $1.70



STANDARD JUVENILE COMBINATION, WITH RUBBERS

Per Pair

No. J733—BOYS' OR GIRLS' COMBINATION $1.40



STANDARD JUVENILE RAT TRAP.

Per Pair

No. J730—BOYS' RAT TRAP...$1.20

Concave Hub Barrel; Fitted with Special Hardened Cones; Equipped with Two Sets Ball Retainers and Balls.

Per Pair

No. 220—MEN'S RAT TRAP $1.20

Per Pair

No. 920—MEN'S RAT TRAP.. $0.85

No. 921—MEN'S COMBINATION WITH RUBBERS $1.00

JUVENILE

No. J920—BOYS' RAT TRAP...$0.80

No. J923—GIRLS' COMBINATION, WITH RUBBERS $1.00

One Pair in a Cardboard Box; Weight per Pair about 1¼ lbs.

BICYCLE PEDALS.

Extra Large Pedals for Collectors and People who ride a Bicycle most of the day.

Wide Tread, 4 in. between Side Plates; High Grade Rubbers, ⅜ in. Square, with Deep Corrugation; Rubbers are so Bolted that they may be turned when Corrugations are worn. Dust Cap is held on by Friction inside the Side Plate; Large Size Bearing, with ⅝ in. Balls, Hardened Cups and Cones; ½ in. Axle.

Per Pair

No. 821—Extreme Inside Length 4 in. Extreme Inside Width 3 in. $2.00

One Pair in a Cardboard Box; Weight per Pair about 2½ lbs.

Wide Tread, 4 in between the Side Plates, made of Heavy Steel; Nickel Plated and Polished. The Cones and Cups are Hardened and Fitted with High Grade Steel Balls; The Pedal Pin is Standard ½ in Diameter, 20 Thread with a Flattened Side to accommodate a Wrench and a Slot in the End for a Screw Driver.

Per Pair

No. 310—RAT TRAP; Securely Braced; Weight per pair about 1¼ lbs. $1.00

Per Pair

No. 311—With Divided Rubbers, 1 in Square, Weight per pair about 2 lbs.....$1.70

Per Pair

No. 312—With Solid One-piece Rubbers, 1 in. Square, Weight per pair about 2 lbs.....$1.40

One Pair in a Heavy Paper Box; Wrapped in Paper

MOTORCYCLE PEDALS

Wide Tread, 4 in. between Side Plates; High Grade Rubbers, 1 1/16 in. Square, with Deep Corrugation; Square Bolts Support Rubbers so they can be turned when one side wears; Dust Cap is held on by Nut on outer end of these Bolts; Large Size Bearing, with 5/32 in. Balls; Hardened Cups and Cones; ⅝ in. Steel Axle; ⅜ in. 20 Thread Base, Flattened

Per Pair

No. 2—MOTORCYCLE $2.80

One Pair in a Cardboard Box, Weight per Pair about 2 lbs.

PEDAL RUBBERS.

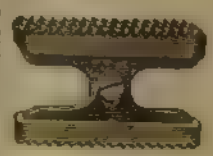
High Grade Rubber ⅜ in. Square, 4 in. Long, with Deep Corrugations, Square Bolt Hole, can be turned when Worn; These Rubbers will fit Nos. 2 and 821 Pedals and other Pedals of this kind

Per Set

No. PR—STANDARD; Weight per set about 1 lb.....$1.00

Packed Loose

PEDAL RUBBERS.



A Good Grade of Rubber, Moulded over Two Pieces of Steel that are far enough apart to slide over the Side of the Pedal; Fastens to Pedal with Bolt and Nut.

Per Set (8)

No. 2—Size of Rubber, 2½ in. Long, ½ in. Wide.....$0.50

Twelve Sets in a Cardboard Box, Complete with Bolts and Nuts. Weight per Set about 6 ozs.

A Good Grade of Rubber, Moulded over One Piece of Steel and sufficient clearance is left on Side of the Steel for the Side of the Pedal to Engage the Rubber Foot Rest Fastens to Pedal with Bolt and Nut

Per Set (4)

No. 4—Size of Rubber, 2¼ in Long, ⅜ in. Wide.....$0.40

Twelve Sets in a Cardboard Box Complete with Bolts and Nuts Weight per Set about 4 ozs.

MOTORCYCLE REPAIR PEDALS.

Usually Carried in the Tool Bag for Quick Repair Work. Made of ½ in. Steel, with Corrugations to Prevent the Foot from Slipping Off Sideways; Flattened to Accommodate a Wrench, and a Deep Slot in Each End for a Screw Driver; Stand 1 ½ in., 20 Thread Right Hand on One End and Left on the Other.

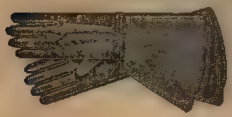
Per Pair

No. EMP $27.00

Packed Loose; Weight per Hundred about 54 lbs.

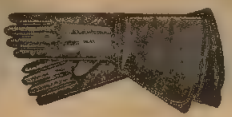
AUTOMOBILE GLOVES

We Have Limited Our Line of Automobile Gloves to a Few Patterns but in These We Have Selected Splendid Values and Popular Patterns. They will be Found Good Sellers and the Kind on which you can Build a Reputation for Good Gloves at Moderate Prices.



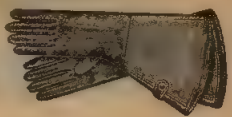
Per Pair

No. 1—Black Horsehide, Selected Grade, Diverted Seams and Reinforced in Crotch; Stiff Box Cuff 6 inches Long with Soft Gore, Reinforced with Canvas; **Adjustable Leather Wrist Strap** with Two Glove Fasteners. Fulgrey. Sizes 7½ to 9½ $5 00



Per Pair

No. 2—Russet Horsehide, Selected Grade; Diverted Seams; Reinforced in Crotch; Stiff Box Cuff 5½ Inches Long, Reinforced with Canvas, Soft Gore; **Adjustable Leather Wrist Strap,** with Two Glove Fasteners. Unlined. Sizes 7½ to 9½ $5 00



Per Pair

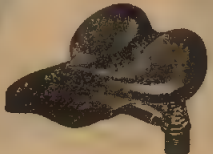
No. 3—Black Horsehide, Diverted Seams; Reinforced in Crotch; Stiff Box Cuff 8½ inches Long with Full Length Soft Gore, Reinforced with Canvas, Has Leather Glove Fastener on Cuff, Unlined. Sizes 7½ to 9½ $3 85

MOTORCYCLE SADDLES

TROXEL EAGLE BRAND

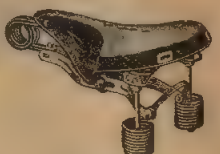
Each

Eagle Motor 3—Stamped Steel Frame Trusses, Black Enameled, Finest Oak Tanned Leather, Equipped with New Spring Action and Without Nose Coil, Giving a Low Saddle Position; the Universal Clamp Used on this Saddle Prevents Its Twisting or Turning. Length 13½ inches; Width 13½ inches; Weight 3¼ lbs. $14 85



Each

Eagle Motor 2—Stamped Steel Frame and Trusses Black Enameled Finest Oak Tanned Leather, Saddle is Supplied with No-Bump Spring Action and without Nose Coil, which Allows a Low Saddle Position; the Universal Clamp on this Saddle Prevents its Twisting or Turning. Length 14½ inches; Width 12½ inches; Weight 3¼ lbs. $11.00



Each

Motor No. 1—Stamped Steel Frame and Trusses, Cushion Springs Combined with the Universal Spring, all Furnished in Black Enamel, English Russet Leather Top Cover If Selected. The Universal Clamp Used on this Saddle Avoids any Possibility of its Twisting or Turning on the Post, the Design Places the Rider in the Lowest Possible Position on the Motorcycle. Length of Seat 13½ inches, Length Over All 14¾ inches, Weight 3¾ lbs. $10 50

MOTORCYCLE SADDLE CLAMPS

TROXEL UNIVERSAL ..... Each

No TM—Drop Forged Steel Clamp, Black Japanned Polished Washers and Nuts; Adjustable to any Position; Weight each 1½ lb $1 80

Loose

MOTORCYCLE GRIPS

★RUGBY MOTORCYCLE ..... Per Pair

No. 66MCG—Black Flexible Rubber Moulded over Cotton Fabric Length 8 inches, Diameter 6, Hole 7/8 inch, Weight per Pair 1¼ lbs. $1.35

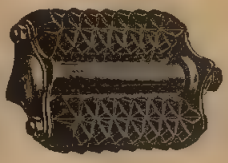
One Pair in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

MOTORCYCLE PEDALS

Per Pair

No. MR—Heavy Round Rubbers, 1 inch in Diameter; Ball Bearings at Both Ends; ½ inch Pin, No. 20 Thread; Dust Proof Caps; Nickel Plated Frame; Weight per Pair 2½ lbs..... **$2.75**



Per Pair

No. MS—Heavy Square Checkered Rubbers, 1 inch Square; Ball Bearings at Each End; ½ inch Pin, No. 20 Thread; Dust Proof Cap; Nickel Plated Frame, Weight per Pair 2½ lbs..... **$3 50**

PIRATE MOTORCYCLE

Per Pair

No. P—Heavy Rubbers, 1 inch in Diameter, 4 inches Long; Ball Bearings at Each End; ½ inch Pin, No. 20 Thread; Nickel Plated Frame; Weight per Pair 2½ lbs. **$3 00**

One Pair in a Box

No. 5—Extra Pins for Above Pedals; Weight per Pair 10 ozs.... **90**

Loose

STANDARD MOTOR CYCLE

Per Pair

No. 3—Heavy Rubbers, 1 inch in Diameter, 4 inches Long; Ball Bearings at each End, ½ inch Pin, No. 20 Thread; Nickel Plated Frame; Weight per Pair 2½ lbs. **$3 85**

One Pair in a Box

No. 6—Extra Pins for Above Pedals; Weight per Pair 10 ozs.... **90**

Loose

PEDAL RUBBERS

Per Set of Four

No. MC4—Fits any make Motorcycle, Hard Black Rubber; Length 4 inches, Thickness 1 inch Square; ¼ inch Square Hole through Center..... **$0.70**

Six Sets in a Carton, Carton Weighs 4 lbs.

MOTORCYCLE TOOL BOX

Each

No. B—Select Oak; Tanned Leather; Length 9 inches; Width 3¼ inches, Height 3¼ inches; Frame is Cold Rolled Steel; Highly Enameled. This Box will Carry Tools and Stand the Hard Vibration of the Motorcycle and Hold its Original Shape. Five Supply Clamps to get any Size Tubing, Weight 1 lb..... **$2.75**

Loose

‡ MULLINS' PRESSED STEEL BOATS.

‡ MULLINS

SPECIAL FOURTEEN FOOT LIVERY.

Arranged for Two Passengers and Designed Especially for Livery Service; will stand Hard Usage; Air-Tight Compartments under Decks; Tying Ring at Bow and Stern; Equipped with Bottom Board, Rowing Braces, Oar Locks and One Pair 7½ ft. Straight Ash Oars.

Each

‡No. SL—Length 14 ft.; Beam 44 in.; Height at Bow 22 in., at Stern 21½ in., Amidship 13½ in.; Finished in Aluminum Outside, Light Blue Inside; Natural Wood Trimmings.....$84.00

Weight Each about 180 lbs.; Crated 185 lbs.

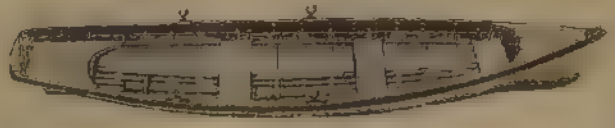
FOURTEEN FOOT PRINCE

Designed on Perfect Lines for Family and Pleasure Resort use; Easy to Row; Air-Tight Compartments under Deck; Tying Rings at Bow and Stern; Equipped with Bottom Boards, Rowing Braces, Oar Locks and One Pair 7½ ft. Straight Ash Oars; Three Seats.

Each

‡No. P—Length 14 ft.; Beam 44 in.; Height at Bow 22 in., at Stern 21½ in., Amidship 13½ in.; Finished in Aluminum Outside, Light Blue Inside; Natural Wood Trimmings.....$89.00

Weight Each about 170 lbs.; Crated 200 lbs.



SIXTEEN FOOT SULTAN

Roomy, Easy to Row and well adapted to Family Use; Air-Tight Compartments under Decks; Tying Rings at Bow and Stern; Equipped with Bottom Boards, Rowing Braces, Oar Locks and One Pair 7½ ft. Straight Ash Oars; Four Seats

‡No. S—Length 16 ft.; Beam 50 in.; Height at Bow 25 in., at Stern 23½ in., Amidship 15 in.; Finished in Aluminum Outside, Light Blue Inside; Natural Wood Trimmings.....$98.00

Weight Each about 225 lbs.; Crated 260 lbs.

FIFTEEN FOOT QUEEN

A Perfect Fishing Boat; Double End Model; May be used to Paddle or Row; Air-Tight Compartments under Decks; Tying Rings at Bow and Stern; Equipped with Bottom Boards, Rowing Braces, Oar Locks and One Pair 7½ ft. Straight Ash Oars; Three Seats.

Each

‡No. Q—Length 15 ft.; Beam 44 in.; Height at Bow and Stern 22 in., Amidship 13½ in.; Finished in Aluminum Outside, Light Blue Inside; Natural Wood Trimmings.....$85.00

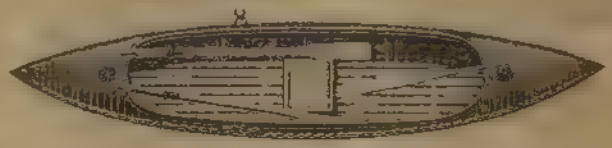
Weight Each about 185 lbs.; Crated 200 lbs.

FIFTEEN FOOT BUCKEYE.

A Combination Hunting and Fishing Boat built exclusively for Marsh Use; Smooth Moulded Bottom; Fitted with Keel; Steady to Shoot or Cast from, Air-Tight Compartments under Decks, Tying Rings at Bow and Stern; Equipped with Bottom Boards, Rowing Braces, Oar Locks and One Pair 7½ ft. Straight Ash Oars; Three Seats.

‡No. O—Length 15 ft.; Beam 44 in.; Height at Bow and Stern 14 in., Amidship 12 in.; Finished in Aluminum Outside, Light Blue or Dead Grass Inside. (ALWAYS SPECIFY COLOR WANTED)..$54.00

Weight Each about 180 lbs.; Crated 190 lbs.



FOURTEEN FOOT GET THERE

Corrugated Steel Sides, Bottom and Top; Air-Tight Bulkheads at Each End sufficient to support 3 men on Upturned Boat; Light Draught; Equipped with Bottom Board; Movable Seat, Oars and Oar Locks, and One Long or Short Paddle.

Each

‡No. G—Length 14 ft.; Beam 35 in.; 12½ in High to Top of Combing at Ends, 10 in. Amidship; Cockpit 9 ft. Long, 30 in Wide; Painted a Dead Grass Color. CAN BE RIGGED FOR SAILING.....$44.00

Weight Each about 160 lbs.; With Fittings, Packed for Shipment 170 lbs

FOURTEEN FOOT BUSTLE

Corrugated Steel Sides, Bottom and Top; Air-Tight Bulkheads at Ends and along Sides; Light Draught; Equipped with Bottom Board, Movable Seat, Oars and Oar Locks, and One Long or Short Paddle.

Each

‡No. B—Length 14 ft.; Beam 46 in.; 12½ in. High to Top of Combing at Ends; 10 in. Amidship; Cockpit 9 ft. Long, 30 in Wide; Painted a Dead Grass Color. CAN BE RIGGED FOR SAILING.....$52.20

Weight Each about 120 lbs.; With Fittings, Packed for Shipment 140 lbs

One in a Crate

‡ CEDAR CANVAS COVERED CANOES.

‡ MULLINS' CHARLES RIVER MODEL.

UNSINKABLE; Ribs and Planking of Best Quality Cedar; Copper Fastened; Stems Steam Bent Ash; Thwarts, Best Selected Ash, Two in Each Canoe; Keels, Oak, ⅞ in. Deep; Open Gunwales of Clear Grain Spruce; Hull Thoroughly Oiled, both Inside and Outside, and Covered with Seamless Closely Woven Specially Treated Canvas; Made of Carefully Selected Material and by Expert Workmen; COLORS: BLUE, RED OR COACH GREEN; With Two Spruce Paddles.

YALE STANDARD

Each

‡No. YS—16 ft. Long, Width at Bilge Amidship 33½ in.; Depth Amidship 12 in.; Weight each about 65 lbs.; Crated 115 lbs. $65.30

HARVARD STANDARD.

Each

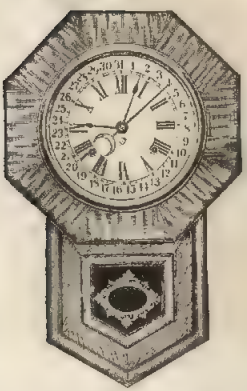
‡No. HS—Length 18 ft.; Width at Bilge Amidship 35 in.; Depth Amidship 12½ in.; Weight each about 75 lbs.; Crated about 125 lbs.....$73.00

Packed in Loose Hay and Wrapped in Burlap

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

High Grade Hanging Clocks

Clocks of Unusual Merit. Shipping Weight About Thirty Pounds.



8299

Made by the Ansonia Clock Co. 10-Inch Drop Octagon Calendar. Dial 10 Inches. Height, 21½ Inches. Eight-Day Time Calendar. Price, Each . . . **$9.00**

Eight-Day Hour or Half-Hour Strike Calendar. Price Each . . . **$10.00**

Gong, 65 Cents Additional

8300

Made by the Waterbury Clock Co. Oak or Mahogany Finish. 30-Day. Time with Second Hand. 12-Inch Dial. Height, 36½ Inches. Width, 17½ Inches. Price, Each **$13.85**

8301

Made by the New Haven Clock Co. Case, Solid Oak, Antique Finish or Solid Mahogany. Movement, Eight-Day, Time Piece. Weight, Regal, 35½ Inches. Width, 14½ Inches. Dial, 12 Inches.

Price, Each **$32.00**

8302

Made by the Ansonia Clock Co. Mahogany or Oak. 30-Day Time. Height, 18½ Inches. Width, 18½ Inches. Dial, 14 Inches. Price, Each **$25.50**

8304

Made by the Ansonia Clock Co. Walnut, Mahogany or Oak. 12-Inch Dial, Pendulum. 8-Day Time. Price, Each . . . . **$ 9.50**

8-Day, Half-Hour Strike. Price, Each **10.50**

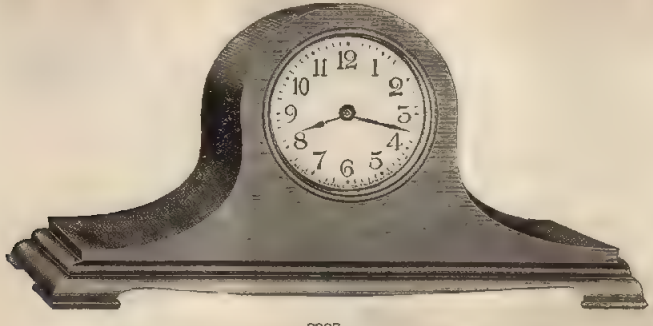
Solid Mahogany Clocks

New Haven Clock Co. Products. New Designs.
Extra Well Made—Eight Day Timepieces. Accurate Timekeepers.

8306
Candlestick
Height 6½ Inches, Width 3 Inches, Solid Mahogany with Brass Cup.
Price, per Pair. **$7.00**

8305
Height, 8¾ Inches, Width, 12½ Inches. Dial, Porcelain 3¾ Inches. Case, Solid Mahogany. Movement, 8-Day, Time Piece. Price, Each **$16.00**

8306
Candlestick
Height 6½ inches, Width 3 inches, Solid Mahogany with Brass Cup.
Price, per Pair **$7.00**



8307
Height, 6½ Inches. Width, 12" Inches. Dia., Porcelain 4½ Inches. Case Solid Mahogany. Movement, 8-Day Time Piece. Price Each **$10.00**

8308
Height, 4½ Inches. Width, 8¾ Inches. Dial, Porcelain, 2¼ Inches. Case Solid Mahogany. Movement, 8-Day Time Piece with Beveled Bowed Glass. Price, Each **$12.85**

8309
Height, 4½ Inches. Width 8 Inches. Dial, Porcelain 2½ Inches. Case Solid Mahogany. Movement, 8 Day Time Piece, with Beveled Bowed Glass. Price, Each **$15.00**

One Satisfied Customer Creates Another. If We Serve You Well, Tell Others; If Not, Tell Us.

"THE HOUSE OF QUALITY"

Alarm, Stop and Chronograph Watches

The Kind That Are Guaranteed.

2878

Everyone is familiar with an alarm clock, but hardly anyone is familiar with an alarm watch.

The Alarm Watch fills not only all the requirements of the usual sleep disturber, but can be made useful in various ways.

To forget an important appointment at any hour of the day will be impossible with the aid of the Alarm Watch.

One is no longer at the mercy of a hotel employe or a sleepy maid, if a train must be caught.

The portability of the alarm watch is a great advantage.

The Alarm Watch is constructed to keep good time, and its handsome gun metal case makes it ornamental as well as useful.

The lid hinged on top will act as a stand.

To silence alarm, push pin to S. Full directions with each watch.

Size is rather smaller than a 16 size watch.

Price, each **$20.00**

We Guarantee All Imported Watches Shown in Our Catalog to be High Grade and Thoroughly Reliable.

New England Chronograph, 7 Jewels Nickel Lever Movement. Has Start, Stop and Fly Back Attachment controlled from the Crown. Stem Wind. Beats Fifths of Seconds.

2879	In Solid Nickel Case. Price .	**$16.00**
2880	In 10 Year Case. Price.....	**$2.00**
2881	In 20 Year Case. Price .	**$4.00**

Nickel Open Face Horse Timer

Start, Stop and Fly-Back, controlled from the crown. Stem wind. Show seconds and fifths. Has minute register working to the right. Nickel movement

2882 Lever escapement. White enamel dial Price..... **$16.00**

2883 Same with Cylinder Escapement. Price **$2.00**

Our Watches Are Cheaper Than Others' "Just as Good" and Better Than Others' "Just as Cheap"

2884

SPLIT

Nickel Open Face Split Timer.

Has Start, Stop and Fly Back operated from crown, and split hand from the side plug. Stem wind. Shows seconds and fifths. Has minute register working to the right. Nickel movement. Lever escapement. Glass cap and white enameled dial. Price.....**$40.00**

If You Don't See What You Want in "Our Salesman" Do Not Hesitate About Writing Us.

All Inquiries are Answered Same Day Received.

"THE HOUSE OF QUALITY"

Complete Solid Nickel Century Watches

For Those Who Do Not Wish to Invest More for Watch Service, We Highly Recommend the Century Watches.

$4.80 Each

2885

A handsome margin of profit can be made on this line of solid nickel Century Watches

2885

18 Size Thin Model Cases, Screw Bezel and Back, 2 or 3 oz. Solid Nickel, Complete with 7 Jewel Century Seth Thomas Movement.

Price Each **$4.80**

Seth Thomas Watch Co.

16 Size, Nickel, 7 Jewels, quick train, Straight Line Escapement, Hard Enameled Dial, Damaskeened Open Face, Pendant Set; Hunting, Lever Set.

Hunting Style Watches $6.00 Each

Side View

Watches that stand the wear and tear of every day use

Complete Solid Nickel Waltham Watch

2886

16 Size—Nickel, Plain Polished, Open Face, Screw Bezel and Back Case

2886

Complete 16 Size, Solid Nickel, Screw Bezel and Back Case Fitted with 7 Jewel Waltham Movement at

$11.35

A combination made especially for us that will surely please your customers

Made by the Waltham Watch Co. Waltham, Mass.

16 Size, 7 Jewels, Exposed Pallets, Cut Expansion Balance, Patent Breguet Hairspring Hardened and Tempered in Form, Patent Detachable Balance Staff, Tempered Steel Safety Barrel, Exposed Winding Wheels, Pendant Set.

Quality, Quantity and Price, First, Last and All the Time

"THE HOUSE OF QUALITY"

New Savage 22 Cal. High Power Rifle

THE FAMOUS SAVAGE FEATHERWEIGHT TAKE-DOWN MODEL

9054 Savage Hammerless Six Shot Repeating Rifle. "Hi-Pressure" steel, 20-inch round barrel, beautifully tapered, highly finished walnut stock, weight 6¼ lbs. Its velocity is higher than that of any rifle manufactured in the United States, and is 200 feet per second higher than the velocity of the United States Springfield Magazine Rifle. Originally intended for shooting ducks and geese at long and unknown ranges on the water. It has proved by actual hunting experience to be perfectly adapted for use on deer and bear in timber, and for goats and big-horn sheep in the mountains, and is perfectly safe to use in a thickly settled country because the bullet, on account of its soft point and its extremely high velocity, goes to pieces at once when it strikes the earth, and cannot possibly glance or ricochet. Each..... $54.00

New Savage Cartridges for above rifle. Per hundred..... 8.40

THE NEW SAVAGE REPEATING RIFLE, TAKE DOWN, 22 CAL. MODEL 1909

9055 22 caliber, browned, straight stock 20-inch round barrel shot gun butt, solid top, side ejection, safety device which positively locks the firing mechanism take-down, shoots 22 short, 22 long and 22 long rifle cartridges in one arm without change of mechanism, perfectly balanced, weight 4 lbs. 10 oz. Each $24.00

9056 Extra Magazine, for above rifle..... .70

The above rifle is of the famous box magazine type the mechanism being so arranged that it will carry three lengths of cartridges, either separately or collectively and when the last shot is fired the mechanism is automatically locked, preventing the snapping of the firing pin on an empty chamber, and showing the operator that his arm is empty

The rifle is equipped with a solid top, thereby insuring absolute safety to the user, the ejection being from the side and away from the shooter.

It is provided with an excellent safety device which when on, positively locks the firing mechanism, placing it at all times absolutely under the control of the shooter.

STEVENS "HIGH POWER" REPEATING RIFLE

This Rifle cannot be prematurely discharged

BARREL—Nickel Steel; Round, 22 inch.

SIGHTS—White blade-pattern front, Sporting rear. Tapped for tang sight.

RECEIVER Solid steel The solid top and rear of the receiver protects the eyes of the operator from powder gas, in the event of a broken primer or a defective shell. The solid top of the receiver protects the mechanism from rain, snow, sand, leaves, etc. Also permits the mounting of a telescope in the best position possible. Drilled and tapped for telescope sights.

ACTION Coil main spring, tempered tool steel hammer and trigger. The action and breech block are entirely enclosed within the receiver at all times When the action is closed, the breech block completely fills the space between the end of the barrel and the solid rear wall of the steel receiver and forms the strongest lock possible The empty shell is ejected from the side. The firing pin is in two parts and cannot strike the primer until the action is closed.

STOCK—Walnut with checkered steel butt plate

FORE-END. Walnut with blued steel cap.

AMMUNITION—Any standard make of soft point Rimless cartridges, marked Rem. Auto-Loading. Six cartridges may be carried. Five in the magazine and one in the barrel.

CALIBERS—25, 30-30, 32 and 35.

WEIGHT—About 7 pounds.

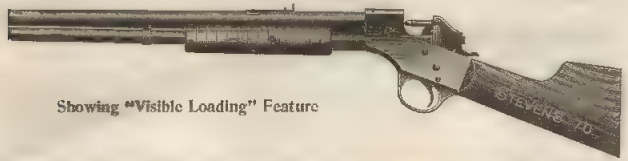
9057 Each $40.00

Our Salesman Catalog is to the Merchant What the Compass is to the Mariner, "An Indispensable Ready Reference".

Stevens "Ideal" Rifle

9058 Half octagon barrel, oiled walnut stock and forearm, rifle butt, case-hardened receiver, sporting rear and Rocky Mountain front sights. Weight, packed for shipment, 10 pounds. Made only in the following styles, to take the following cartridges: 22 long rifle R. F., 25 Stevens R F, standard length of barrel, 24 inches. Weight, 7 pounds. Each **$16.50**

STEVENS "VISIBLE LOADING" REPEATING RIFLE



Showing "Visible Loading" Feature

9059 Stevens New Visible Loading" Repeating Rifle. One-piece magazine tube and breech block, double extractors, safety lock 20-inch round barrel, varnished stock, rubber butt plate, case-hardened frame, extreme length, 35 inches, shoots 22 short Rim Fire Cartridges. The best moderate priced repeating rifle on the market. Fitted with bead front and sporting rear sights. **$15.30**

STEVENS FAVORITE

9060 Half octagon 22-inch barrel case-hardened frame, oiled walnut stock. Weight 4¼ pounds. Shoots C. B. caps, 22 short, 22 long, 22 long rifle. Each **$10.65**

STEVENS "MARKSMAN" RIFLE

9061 Round tip-up 20-inch barrel, handsome blued frame, full oval stock, lever action, positive extractor, shotgun butt, rubber butt plate bead front and open rear sights. 22 caliber, 25 caliber or 32 caliber. Each **$8.60**

Tents, Hunting Suits, Base Ball Uniforms, Sweaters, etc, Illustrated and Priced Beginning on Page 505.

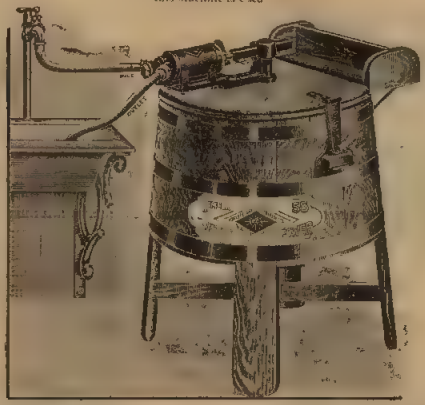
WASHING MACHINES

NORLEIGH DIAMOND WATER POWER

Runs by Water Power
The Hard Work and Drudgery
of Washday are Unknown where
this Machine is Used

Connect the Machine to the Faucet: The Water Pressure Does the Work

Do not Forget that there is a Limit to the Quantity of Clothes which Can be Washed at One Time, no Matter how Severe Perfect Result the Machine Must Not be Overcrowded



Works to Best Advantage with a Water Pressure of 35 pounds or Over, which Produces 60 Piston Strokes per Minute and 60 Movements of the Agitator; the Machine will Work with 20 pounds Pressure, which will Produce About 50 to 54 Piston Strokes per Minute, this is Sufficient to Wash 6 Shirts or their Equivalent.

Each

No. 55 Inside Dimensions, Diameter at Top 20 inches, at Top 20 inches, Depth 15 inches, Height to Top of Tub 29 inches, Height Over All 34 inches; Length of Wringer Beam 15½ inches; Tub Finished in Malachite Green, Varnished; Hoops, Hinges, Clasp, etc., Gold Bronzed, Motor Finished in Red Enamel, Main Frame Black Japanned, Complete with Intake and Discharge Hose, Weight Each 70 lbs. **$26 40**

One in a Crate

Sectional View of Motor

These Views Give an Idea of the Extreme Simplicity of the Motor. Note the Few Parts and that no Packing, Springs, etc., are Used; Size of Motor 8½x4 inches.

Sectional View of Cylinder

By the Scientific Application of the Pressure, Greater Power is Developed than is Possible with Other Types of Water Motors

The Motor, which is Very Simple, is the Most Powerful Made for this Purpose; Entire Motor, Including the Port and All Waterways is a **Solid Bronze** Casting Without Joints and Needs no Packing, Faulty Packing is the General Source of Trouble in other Motors; the Action of the Valve is Automatic, Cylinder Head Screwed on Absolutely Tight, The Piston Rod is of Soft Brass; a Double Flanged Gear Cap Entirely Covers the Gears, Preventing Accidents, Extra Heavy Cast Bronze Hose Connections, Broad Cast Iron Motor Base of Our Own Design Give Added Security to Fastening.

The Tub is Made of Waterproof Long Grained Cypress Wood, Malachite Green Finish Varnished, the Inside is Corrugated Around Sides and Bottom, Giving a Perfect Rubbing Surface; the Motor being Light in Weight Little Effort is Required to Lift the Cover, the Extension Stove Legs are Strongly Braced and will Never Become Shaky

WATER MOTORS

Extra Motors for No. 55 Norleigh Diamond Water Power Washing Machine.

Each

No. ND55M —Consists of Motor, Shaft, Pin Wheel and Hose, all Ready to Attach to Tub Type **$26 90**

One in a Box

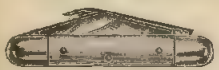
Norleigh Diamond Washing Machines are Sold Only to the Best Retail Trade, Insuring the Merchant Against Unfair Competition

"DIAMOND EDGE IS A QUALITY PLEDGE"

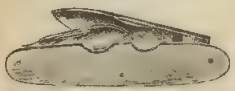
Values of Merit

Staple Selling Pocket Knives

Values of Merit



No. N5309. Ladies Knife, open 4¾ in., neat genteel size, two blades spear shape, polished steel bolsters, brass lined, iris handle, neat in appearance and finish.
Dozen ..... .80



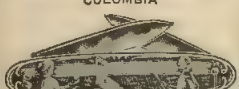
No. N5453. Ladies or Gents Pocket Knife, 2 blades closed 2¾ in. oval handle of changeable color iris, with 2 easy opener notches, blades are well ground, strictly well finished knife, flat, brass lined.
Dozen ..... .80

Souvenir Pocket Knives

Embossed metal handle, French grey finish, both sides alike, 2 blades, open 5¾ in., finely finished, flat shape genteel knife. One dozen 6 kinds assorted subjects in package as follows:

BASEBALL PLAYERS.
FOXES
FLYING GEESE

COLUMBIA

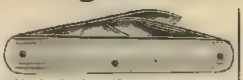


TENNIS PLAYERS

TYPICAL DOGS

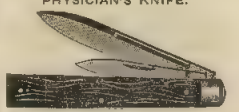
No. N5032. Dozen..... .85

No. N5456. Aeroplane Knife, high class finish, open 8⅞ in., finely polished blade, metal handle, aluminum and bronze finish, made in imitation of aeroplane fine specialty knife. Dozen. . . .85

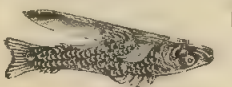


Men's Pocket Knife, closed 3½ in. brass lined, tapered handle, 2 blade, one large spear and one small, strongly made, popular shape.
No. N5451. White Bone. Doz. .85
No. N5452 Ebony. Doz..... .85

PHYSICIAN'S KNIFE.



Physicians Knife, closed 3¼ in., two blade, one large Congress, one pen blade, slender handle, polished steel bolster; square end, well ground and finished
Doz.
No. N5068. White bone..... .85
No. N5068½. Ebony ..... .85

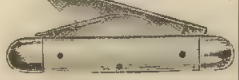


No. N5455. Fish Knife, high class finish, full polished one blade, length open 4 in., exact shape of fish, embossed scales, aluminum and copper oxidized finish, a fine premium or specialty knife. Dozen. . .85

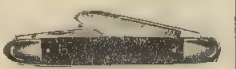
No. N5070. Jack Knife, 1 large spear blade, 1 small, fancy shape handle, steel bolster, black Japan finish, closed 3¾ in. Good, strong substantially built knife at a low price. Dozen ..... .85

Gents Pocket Knife, 2 blade, one large Congress shape, one small, closed 3½ in., Congress shape handle, fancy polished steel bolsters, big seller.
Doz
No. N5015. White Bone..... .85
No. N5019. Stag .5

No. N5066. Gents Pocket Knife, neat genteel size, 2 blades, closed 3 in., fancy shape tapering stag handle, brass lined, well ground and finished, German silver shield
Dozen ..... .85



Gents Pocket Knife, 2 blade, one large spear and one small, length closed 3¼ in., polished steel bolsters, well finished, good value.
Doz.
No. N5058. White Bone..... .85
No. N5059. Ebony ..... .85



No. N3301. Pen Knife, 2 blades, 1 large, one small spear, steel bolsters, ebony shell and white celluloid handles assorted in each dozen, brass rivets, size closed 2¾ in.
Dozen ..... .85

No. N5302. Pen Knife, 2 blades, 1 large, 1 small spear, celluloid handle, tortoise shell, white and ebony assorted handles in a box of 1 dozen, brass shield and lining, 3 in. Dozen ..... .85

No. N5474. Automobile Advertising of Souvenir Knife, clever shape, closed 2½ in. The handle represents the shape in outline of an automobile, made of aluminum, one blade, nicely ground and polished, both sides of handle alike.
Dozen . .85

No. N5303. Pen Knife, 1 blade 2¾ in., brass lined, double German silver bolsters, variegated celluloid handles. Dozen ..... .90

Pocket Cutlery Department

For a Reliable Line of Sellers this is unquestionably the most careful selection of popular grades styles and qualities possible to assemble.

This Combination Knife is Better than Most Houses Offer at a Higher Price

No. N5037. Improved Combination Knife. Two blades; one large, one small, corkscrew at back, with glass cutter and glass chipper; together with an arrangement for cutting off cigar ends; nickel plated metal handle, each side inlaid with colored tortoise shell celluloid in finish and appearance better than any knife of similar kind in the market; has more good talking points upon which the street men and schemists can enlarge; truly an attractive knife and a phenomenal seller; closed 3⅝ inches. a big flash.
Gross .. .. 6.75 Dozen .. .. .60

MANICURE KNIVES

No. N5405. Combination Manicure Knife, closed 2 in., fancy tortoise shell handle, metal shield on one side, contains one clip blade, nickel polished, other end one nickel ear spoon and transparent toothpick. Fine specialty item. One dozen on card.
Gross ..... 2.25 Dozen ..... .20

No. N5466. Combination Manicure Knife, fish design, embossed celluloid aluminum finish handle, fine copy of fish, one knife blade nickel polished, one transparent toothpick and one nickel ear spoon, closed 2⅛ in.
Gross ..... 2.50 | Dozen 22

BOYS' POCKET KNIVES.

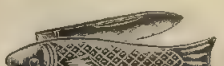
No. N4998. Boys' Pocket Knife, small size, length open 4 in., one spear blade, embossed nickel handle, bright finish.
Gross ..... 2.10 Dozen ..... .18

No. N4999. Boys' Small Pocket Knife, open 4 in., one blade, ribbed embossed nickel plated metal handle. Gross ... 2.10 Dozen .... .18

No. N5000. Boys' Pocket Knife, one blade, bright metal handle with embossed boy figure worded "Our Boy"
Gross ..... 2.25 Dozen . ... .19

BOYS' POCKET KNIVES.

No. N5001. Boys' Pocket Knife, bright nickel handle, embossed battleship worded "U. S. Crusier," one large blade
Gross .. ... 2.50 | Dozen ..... .22



No. N4997. Boys' Knife, fish shape, open 3¾ in., one blade, nickel polished metal fish design handle with embossed scales, good seller.
Gross..... 2.90 | Dozen..... .25

Boys' Fancy Pocket Knife, full length open 5½ in., one clip blade, fancy design nickle polished metal handle, a favorite seller.
No. N4995. Gross..2.90 | Dozen.. .25

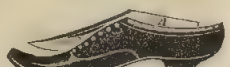
No. N5002. Boys' Pocket Knife, one large blade, pressed design iron handle, black finish.
Gross ..... 3.00 | Dozen ..... .26

No. N4993. Boys' Pocket Knife, open 4⅝ in., one blade, sheep's foot shape, black metal handle, embossed imitation stag with inscription "The Boys' Favorite" on both sides.
Gross ..... 3.00 Dozen ..... .27

BOYS' POCKET KNIVES.

No. N5003. Lady Leg Knife, bright polished metal handle, embossed stocking and shoe, good copy of lady's high booted leg, one clip blade, closed 2½ in.
Gross ..... 3.25 | Dozen..... .30

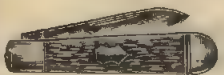
No. N4996. Boys' Fancy Knife, length open 5½ in., one clip blade, fancy rib embossed black metal handle, good looking low priced knife
Gross ..... 3.25 Dozen ..... .30



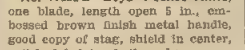
No. N5010. Slipper Pocket Knife, one blade, good pattern of lady's slipper in popular colors, fine article in the knife line for shoe men for advertising or premiums.
Gross ..... 3.50 | Dozen ..... .30

No. N5400. Boys' Knife. One Blade! full length opened 4¾ inches, assorted handles, excellent value for a 5-cent seller; one dozen on card.
Gross ... . 3.50 Dozen ..... .30

Excellent Low Priced Pocket Knives

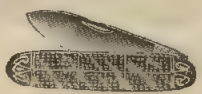


No. N4994. Boys' Pocket Knife, one blade, length open 5 in., embossed brown finish metal handle, good copy of stag, shield in center, polished bolster both ends.
Gross ..... 3.50 | Dozen ..... .30



No. N4990. Boys Pocket Knife, open 4¼ in., nickel finish imitation double bolster, brown finish metal handle embossed, good copy of stag, one spear blade.
Gross ..... 3.50 Dozen ..... .30

No. N4991. Boys Pocket Knife, length open 4½ in., one sheep's foot shape blade, congress shape embossed metal handle, imitation stag, brown finish, polished bolsters.
Gross..... 3.50 Dozen..... .30

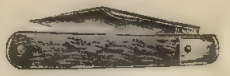


No. N5014. Boys' Knife, closed 3 in., one large spear blade, flat nickel handles embossed on both sides with multiplication tables.
Gross ..... 3.75 | Dozen ..... .33

No. N5005. Pocket Knife, novelty fish shape, closed 3¼ in., one large clip blade, bright nickel finish. Gross.... 4.00 | Dozen.... .35

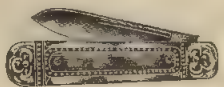
No. N5007. Boys' Chain Pocket Knife, one blade, nickel handle embossed both sides with figure and reads "Our Boy," with 12 inch chain, loop end.
Gross ..... 4.00 | Dozen 35

No. N4987. Boys' Pocket Knife, one spear blade, length open 5¼ in., polished bolster, black finish metal handle, embossed imitation stag.
Gross ..... 4.00 | Dozen ..... .35

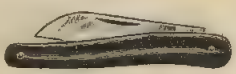


No. N4988. Boys' Pocket Knife, one large clip blade, length open 5⅜ in., polished bolster handle, brown finish imitation stag.
Gross ..... 4.00 | Dozen ..... .35

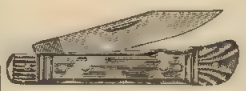
No. N4989. Boys' Pocket Knife, open 5¼ in., one spear blade, well ground, polished nickel metal bolsters, brown finish metal handle embossed imitation stag, raised shield on both sides
Gross ..... 4.00 Dozen ..... .35



No. N5006. Boys' Pocket Knife, open 4⅜ in., one large spear blade, full ground, fancy embossed nickel handle, center inlaid with tortoise shell celluloid both sides.
Gross..... 4.00 | Dozen..... .35

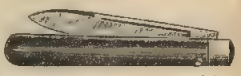


No, N5009. Boys' Knife, 1 blade, 3½ inches long. Black handle Congress blade.
Gross ...... 4.50 | Dozen 40

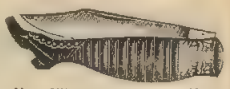


No. N5012. Pocket Knife, 1 large clip blade, fancy pressed bolster, bright white metal handle, inlaid with colored celluloid, length 3¼ inches.
Gross ..... 4.50 | Dozen ..... .40

No. N5020. Junior Hunting Knife, 3½ in. curved shape, white metal handle inlaid with tortoise shell, one Wharncliffe blade, a flashy looker.
Gross ..... 4.75 | Dozen ..... .40

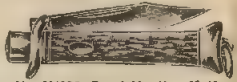


No. N5030. Boys' Pocket Knife, closed 3¼ in., one large spear blade, well ground and finished black black metal handle, polished bolster.
Gross ..... 4.75 Dozen ..... .40



No. N5011. Lady Leg Knife, clip blade, metal handle, good lady leg shape, embossed imitation stocking and shoe, in assorted colors, closed 3⅜ inches.
Gross..... 4.75 Dozen..... .40

No. N4985. Arabian Jack Knife, open 6½, one large clip blade, polished nickel plated fancy embossed metal handle, fancy shape.
Gross..... 4.85 Dozen..... .42



No. N4986. Boys' Hunting Knife, open 6¼ in., long clip blade, brown finish, embossed imitation stag metal handle, nickel polished bolster and guard, fancy end with ring.
Gross ..... 4.85 | Dozen ..... .42

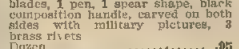
No. N5013. Slipper Knife, closed 3½ in., fancy slipper design, embossed both sides, one large clip blade ,excellent knife for shoe house for advertising or premium, handle nickel plated.
Gross..... 4.85 | Dozen..... .42

Choice Sellers in Imported Pocket Knives

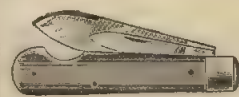
No. N5408. Boys' Carded Pocket Knives, two blades, one large spear, one pen blade, tapered handles, assorted Buffalo, white and stag on card of one dozen, closed 3¼ in. Dozen ..... .90

No. N5071. Pocket Knife, one blade, 3½ inches, brass bolsters, 3 inch spear blade, bone handles. Dozen ..... .90
No. N5072. Stag handle..... .90

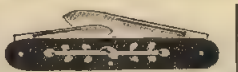
No. N5407. Carded School Knives, closed 2¾ inches, neat, genteel shape handles, assorted white, tortoise shell and pearline, German silver shield, two blades, one each end; nicely finished and polished, one dozen on card. Dozen ..... .90



No. N5073. Pocket Knife, two blades, 1 pen, 1 spear shape, black composition handle, carved on both sides with military pictures, 3 brass rivets Dozen ..... .95



Jack Knife, two blades, one large, one small spear 3¼ inches, polished nickel bolster, easy opener. Doz.
No N5074. Bone handle..... **1.00**
No. N5075. Rosewood handle. .95
No. N5076. Ebony handle.... .95

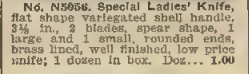


No. N5394. Pen Knife, buffalo horn handle, inlaid with colored mother-of-pearl and German silver on one side, brass lined, 2 blades, 1 small, 1 large spear; polished, size closed 2⅝ in. Dozen..... .95

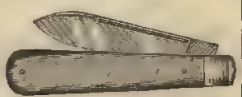
No. N5457. Pocket Knife, one large spear blade, open 5¾ in., fun ground, well polished blade, polished Buffalo horn black handle, fancy inlaid with German silver and pearl. Dozen ..... .95

No. N5080. Ladies' Slipper Knife, 2¾ inches long, comp. handle, black and tan colors, in finish and pattern like a fancy slipper, brass lined, brass rivets, one clip blade, polished; 2¾ inches, excellent article for shoemen as souvenir or advertising knife. Dozen..... .90

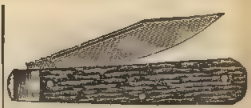
No. N5055. Nickel Handle Pocket Knife, two blade, one large, one small, spear shape, very flat, highly polished, one piece nickel handle, a regular vest pocket knife, 3 in. Dozen 1.00



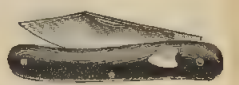
No. N5058. Special Ladies' Knife, flat shape variegated shell handle, 3½ in., 2 blades, spear shape, 1 large and 1 small, rounded ends, brass lined, well finished, low price knife; 1 dozen in box. Doz... 1.00



No. N5077. Jack Knife, 1 large clip blade, good steel, finely polished white bone handle, polished steel bolster and lining. Entire length 4¾ inches, good substantial looker and strong knife. Knife Board Man's Special. Doz.... 1.00



No. N5079. Jack Knife, large size, 1 clip blade, stag handle, steel bolster and lining. Well burnished, very strong. Entire length 6¾ in A big flash. Dozen 1.00
No. N5078. As above, with bone handle. Dozen 1.00



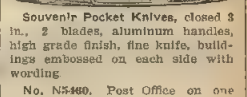
Congress Shape Handle Pocket Knife, 2⅝ in. closed, well finished, good low price knife, one clip shape large blade, a staple seller.

	Doz
No. N5083. Buffalo handle..	1.10
No. N5084. Buffalo handle..	1.15

Pocket Knife, two blades, one spear, one pen, 3½ in., double German silver bolster

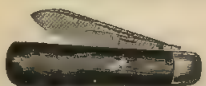
	Doz
No. N5085. Bone handle.....	1.20
No. N5086. Stag handle.....	1.20
No. N5087. Ebony handle....	1.20

Men's Pocket Knife, one large clip blade, full length open 6¾ in., well ground and finished gun stock shaped handle, polished Buffalo horn, very fine selling style.
No. N5458. German Silver Shield. Dozen 1.20
No. N5459. Fancy Flower Inlaying. Dozen 1.20

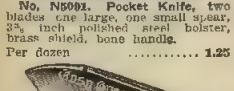


Souvenir Pocket Knives, closed 3 in., 2 blades, aluminum handles, high grade finish, fine knife, buildings embossed on each side with wording
No. N5460. Post Office on one side City Hall on other.
Dozen 1.75
No. N5461. Masonic Temple one side, Northwestern Station other side. Dozen 1.75

The Best Popular Priced Pocket Knives



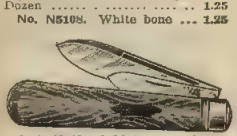
No. N5001. Pocket Knife, two blades one large, one small spear, 3⅜ inch polished steel bolster, brass shield, bone handle.
Per dozen 1.25



Easy Opener Jack Knife, 3¼ inch, two blade, one large spear etched "Easy Opener," one small pen blade tapered end handle, notched for easy opening, polished steel bolster, German silver inlaid shield; a well made and finished knife.

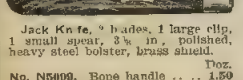
	Doz.
No. N5105. Bone handle	1.25
No. N5106. Ebony handle ...	1.25
No. N5107. Stag handle	1.25

No. N5109. Pocket Knife, two blade, one large clip blade, one pen blade, polished steel bolster, German silver shield, polished ebony handle, tapered shape, a well liked popular knife at very low price.
Dozen 1.25
No. N5108. White bone ... 1.25



Jack Knife, 2 blades, one large, one small spear, 3⅜ in., polished, grooved steel bolster, brass shield

No. N5096. Bone handle. Dozen	1.30
No. N5097. Stag handle. Dozen	1.30
No. N5098. Dogwood handle. Dozen	1.30



Jack Knife, 3 blades, 1 large clip, 1 small spear, 3⅜ in., polished, heavy steel bolster, brass shield.

	Doz.
No. N5099. Bone handle	1.50
No. N5100. Stag handle	1.50
No. N5101. Ebony handle ...	1.50

No. N5057. Nickel Handle Pocket Knife, very neat flat shape, 2 blade, one large, one small spear shape, highly polished, one piece nickel handle embossed "XLNT," 3 in. regular vest pocket knife, one dozen in box. Dozen 1.50

Jack Knife, 3 blades, 1 large, 1 small spear, 3½ in., steel polished bolster brass shield.

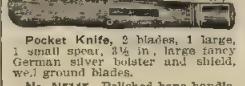
No. N5102. Bone handle	1.55
No. N5103. Dogwood handle..	1.55
No. N5104. Ebony handle ...	1.55

Easy Opener Jack Knife, closed, 3½ in., 2 blades, 1 large spear, 1 pen blade, large blade swedged, well ground and finished on both sides; steel bolster, brass shield, easy opener notch, comparatively a very good value.

No. N5110. White bone handle Dozen ..	1.65
No. N5111. Rosewood handle. Dozen	1.65
No. N5112. Ebony handle. Dozen	1.65

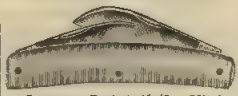
Clipper Pocket Knife, closed 3⅛ in., a popular shape curved handle, rounded ends, two blades, one large clipper shape, one pen This is a neat, genteel pocket knife; a good seller, well finished.

No. N5138. Stag, dozen	1.65
No. N5139. Buffalo, dozen....	1.65



Pocket Knife, 2 blades, 1 large, 1 small spear, 3½ in., large fancy German silver bolster and shield, well ground blades.

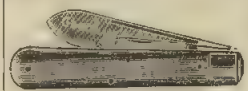
No. N5115. Polished bone handle. Dozen	1.65
No. N5116. Ebony handle. Dozen	1.65



Congress Pocket Knife, 3¼ in., neat, flat handle, Congress shape, two blades, one large Congress one small pen, well ground and polished blades, brass lined, neat shaped knife.

No. N5127. Stag, dozen	1.75
No. N5128. White, dozen	1.75

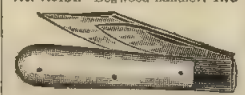
No. N5129. Assorted Pocket Knives, 3 styles assorted, 12 knives in a nice satin lined partitioned box with cover. Shell, stag, white, red and blue celluloid handles in Congress and oval shapes Two blades. Attractive genteel, pocket knives; especial good finish. Every one a corking big value and good seller. Dozen 1.75



No. N5130. Jack Knife, 2 blades, 1 large, 1 small spear, 3⅛ in., bone handle, German silver bolsters, well finished, words "Good Luck" etched on blade. Dozen 1.75

Jack Knife. Two Blades. One large, one small spear 3⅜ inches, polished bolster, brass shield, words "Our Pride" etched on blade; gun stock shaped handle.

	Doz.
No. N5131. White bone	1.75
No. N5132. Stag handle	1.75
No. N5133. Ebony handle ...	1.75
No. N5134. Dogwood handle..	1.75

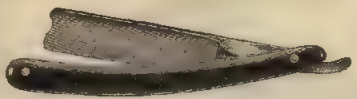


Heavy Jack Knife, 2 blades, size 3⅜ in., 1 large clip, 1 pen, strong, well ground blades, nicely finished, heavy ferrule; a good substantial farmers' knife.

No. N5120. Rosewood, dozen	1.75
No. N5121. Ebony, dozen.....	1.75

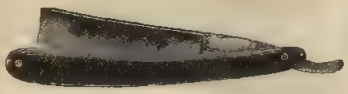
RAZORS

We are recognized as headquarters in this line. We buy and sell more razors than any other house in this country. Our prestige is built on giving exceptional values at exceptionally low figures.



No. N5500. "Prince's Own" Razor, ⅝ inch blade, etched "The Prince's Own," hollow point, black handle, brass rivets, each in case. Dozen 1.40

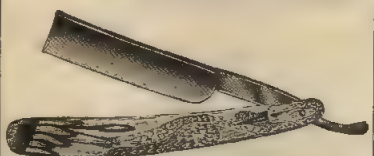
The Following Razors Are All Magnetized



No. N5535. Razor, polished black handle, ⅝ inch square point blade, full buffed polished, hollow ground, well finished and made, full size, very good quality at the price. Will give satisfaction; exceptionally good article for a scheme purpose. Each in case. Dozen 1.85

No. N5536. Razor, polished white bone handle, ⅝ inch blade, square point, buffed polished, hollow ground, file tang. This razor will give satisfaction. it is well made, full size and of good shape. One of our special offerings; each in case. Per dozen..... ..... 1.85

No. N5529. Razor, full hollow ground, well polished, file tang, round point ⅝ in. blade, colored celluloid handle embossed with art figure design. Dozen 2.00

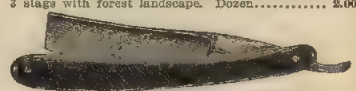


No. N5531. Razor, square point, hollow ground, ⅝ in. blade, well polished, fine mechanical finish, fancy red celluloid handle embossed with stork design. Each in case; very attractive, good selling number. Dozen 2.00

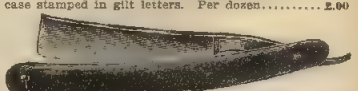
No. N5532. Razor, ⅝ inch square point blade, hollow ground, buffed polished, good quality steel, file tang, solid color, red handle, with raised picture design of windmill, tower and scenery on one side; each in case. Dozen..... 2.00

No. N5533. Razor, ⅝ inch square point blade, hollow ground, good quality steel buffed polished, file tang, solid color, blue handle, with raised picture design of peacock on one side. Dozen..... 2.00

No. N5534 Razor, ⅝ inch square point blade, hollow ground, buffed polished, good quality steel, file tang, solid color, blue handle, with raised picture of 3 stags with forest landscape. Dozen..... 2.00



No. N5538. Razor, full hollow ground, ⅝ in. blade, etched in fancy letters, good razor steel tempered blade, file tang, polished black handle. Each in case stamped in gilt letters. Per dozen..... 2.00



No. N5537. Razor, ⅝ in., full hollow ground, square point blade, steel file tang, first-class finish, well polished, with flat black handle. The blade of this razor is of extra high polish. Each in gilt lettered case. Dozen..... 2.25

No. N5502. Silver Steel Razor, full hollow ground, ⅝ inch blade, etched "Silver Steel, fully warranted," ringing tempered steel, black rubber handles, each in case, stamped $3.00; very good value. Dozen 2.50

TRADE MARK:
WM. ENDERS' OAK LEAF,
REGISTERED.

AXES.

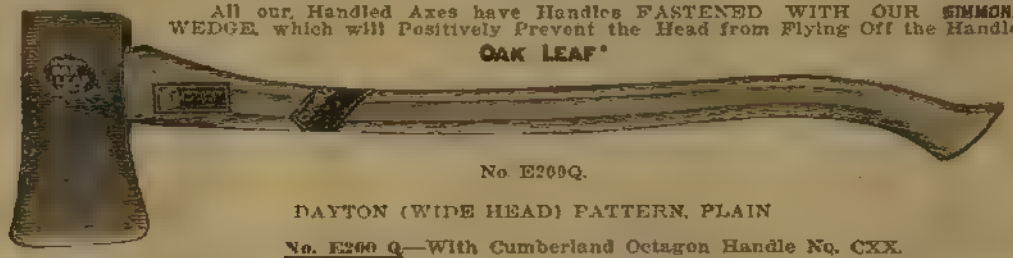
OAK LEAF, BLACK FINISH.

SINGLE BIT.

Soft Steel Body, Hardened Poll; Special Crucible Forged Steel Bits Carefully Tempered, Charcoal Finish, Polished Cutting Edge.

All our Handled Axes have Handles FASTENED WITH OUR SIMMONS PATENT WEDGE, which will Positively Prevent the Head from Flying Off the Handle.

OAK LEAF



No. E200Q.

DAYTON (WIDE HEAD) PATTERN, PLAIN

No. E200 Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$19.50	20.00	20.50	21.00

No. E200R—With Cumberland Octagon Handle No. CX.

Handled with Cumberland Third Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$19.00	19.50	20.00	20.50

No. E200U—With Standard Oval Handle No. S/1.

Handled with Standard No. 1 Quality Machine Made Hickory Handle.

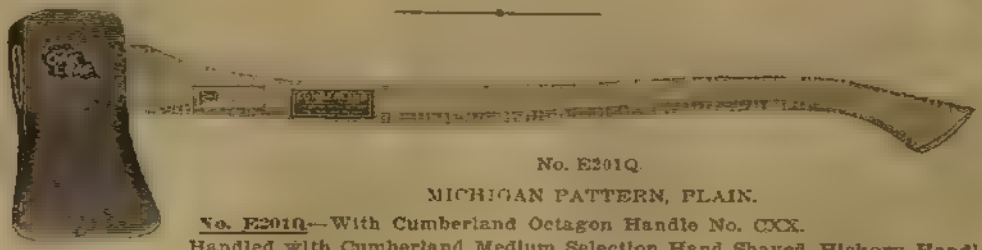
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	65	70	75	80
Per dozen	$18.50	[illegible]	19.50	20.00

One Dozen in a Crate.

No. E200—WITHOUT HANDLE

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5	4½ to 5½
Weight per dozen about, lbs.	49	54	59	64
Per dozen	$14.50	15.00	15.50	16.00

One Dozen in a Wood Box.



No. E201Q.

MICHIGAN PATTERN, PLAIN.

No. E201Q—With Cumberland Octagon Handle No. CXX.

Handled with Cumberland Medium Selection Hand Shaved Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$19.50	20.00	20.50

No. E201R—With Cumberland Octagon Handle No. CX.

Handled with Cumberland Third Selection Hand Shaved Hickory Handle.

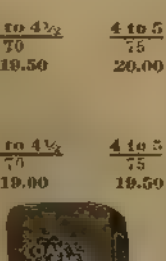
Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$19.00	19.50	20.00

No. E201U—With Standard Oval Handle No. S/1.

Handled with Standard No. 1 Quality Machine Made Hickory Handle.

Weight of Head, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	65	70	75
Per dozen	$18.50	19.00	19.50

One Dozen in a Crate.



No. E201—WITHOUT HANDLE.

Weight each, lbs.	3 to 4	3½ to 4½	4 to 5
Weight per dozen about, lbs.	49	54	59
Per dozen	$14.50	15.00	15.50

One Dozen in a Wood Box.

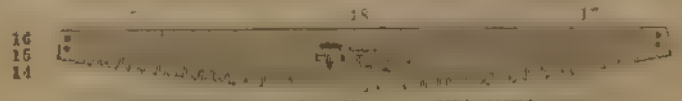
Weight of Each Axe Stamped on the Poll

CROSS CUT SAWS.

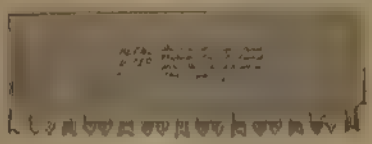
WITHOUT HANDLES.

KEEN KUTTER*, WIDE BLADE.

Highest Grade Crucible Steel, EXTRA POLISHED AND ETCHED, Ground Gradually Thinner from Teeth to Back, the Lines of Taper Curving Parallel to the Cutting Edge, making a Thin Center Back (Lessening Friction), and Stiff Ends (Preventing Buckling); TEETH EXTRA FILED AND CAREFULLY SET, READY FOR USE; Papered and Stripped.



Showing Curve Grinding on KEEN KUTTER saws



Tuttle Tooth, Wide Blade.

KEEN KUTTER*: 14x18 Gauge.

Nos.	K1005	K1005½	K1006	K1006½	K1007
Length, feet	5	5½	6	6½	7
Width at Center, Inches	7	7¼	7½	7¾	7¾
Weight each net about, lbs.	6	7	8	9	10
Each	$3.40	3.70	4.00	4.30	4.60

KEEN KUTTER*: 14x19 Gauge.

Nos.	K1105	K1105½	K1106	K1106½	K1107
Length, feet	5	5½	6	6½	7
Width at Center, Inches	6¾	7¼	7½	7¾	8
Weight each net about, lbs.	6	7	8	9	10
Each	$4.00	4.30	4.60	4.90	5.20

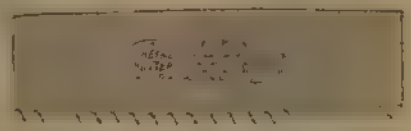
Tri-Cut Tuttle Tooth, Wide Blade.

KEEN KUTTER*: 14x18 Gauge.

Nos.	K1075½	K1076	K1076½	K1077
Length, feet	5½	6	6½	7
Width at Center, In.	7	7½	8	8
Weight each net about, lbs.	7	8	9	10
Each	$5.00	5.50	6.00	6.50

KEEN KUTTER*: 14x19 Gauge.

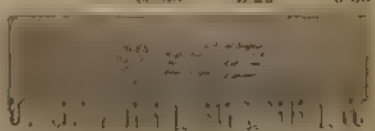
Nos.	K1125½	K1126	K1126½	K1127	K1127½
Length, feet	5½	6	6½	7	7½
Width at Center, Inches	6½	7	7¼	7½	7¾
Weight each net about, lbs.	7	8	9	10	12
Each	$5.60	6.10	6.60	7.00	7.50



Plain or Peg Tooth, Wide Blade.

KEEN KUTTER*, 14x16 Gauge.

Nos.	K1061½	K1065	K1065½	K1066
Length, feet	5½	6	6½	7
Width at Center, In.	6¾	7	7¼	7½
Weight each net about, lbs.	5	5	6	7
Each	$3.00	3.20	3.60	4.00



Lance Tooth, Perforated, Wide Blade.

KEEN KUTTER*: 14x18 Gauge.

Nos.	K1085½	K1086	K1086½	K1087
Length, feet	5½	6	6½	7
Width at Center, In.	6¾	7	7¼	7½
Weight each net about, lbs.	6	7	8	9
Each	$4.30	4.90	5.20	5.60

KEEN KUTTER*: 14x19 Gauge.

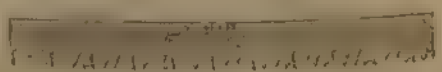
Nos.	K1085½	K1086	K1086½	K1087
Length, feet	5½	6	6½	7
Width at Center, Inches	6¾	7	7¼	7½
Weight each net about, lbs.	6	7	8	9
Each	$5.00	6.10	6.60	7.00

Each Saw Wrapped in Paper; Teeth Protected by Wood Strip.

Assortment: One to Six Wide Blade Saws as Ordered.

KEEN KUTTER*; NARROW BLADE.

Highest Grade Crucible Steel; Thin Back; Teeth Extra Filed and Carefully Set, Ready for use.



KEEN KUTTER*; Extra Polished and Etched; Champion Tooth; Narrow Blade; 14 Gauge.

Nos.	K2005	K2005½	K2006	K2006½
Length, feet	5	5½	6	6½
Width at Center, Inches	3⅝	3¾	3⅞	3⅞
Weight each net about, lbs.	3½	4	4½	5
Each	$1.70	1.90	2.10	2.20

KEEN KUTTER*; Extra Polished and Etched; Diamond Tooth; Narrow Blade, 14 Gauge.

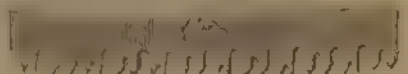
Nos.	K2025	K2025½	K2026
Length, feet	5	5½	6
Width at Center, Inches	2¾	2⅞	3⅛
Weight each net about, lbs.	3½	4	4½
Each	$2.20	2.40	2.70

OAK LEAF*

Special Crucible Steel, Polished and Etched; Narrow Blade; Teeth Filed and Set.

OAK LEAF*, Champion Tooth, 14 Gauge.

Nos.	K2085	K2085½	K2086	K2086½
Length, feet	5	5½	6	6½
Width at Center, Inches	3	3½	3¾	3¾
Weight each net about, lbs.	3	4	4½	5
Each	$1.54	1.70	1.80	2.00



OAK LEAF* DIAMOND TOOTH, 14 Gauge.

Nos.	K2025	K2025½	K2026
Length, feet	5	5½	6
Width at Center, Inches	3	3	3
Weight each net about, lbs.	3	4	4½
Each	$1.54	1.70	1.80

OAK LEAF* Perforated Lance Tooth; 14 Gauge.

Nos.	K2085	K2085½	K2086
Length, feet	5	5½	6
Width at Center, Inches	3¾	3⅞	3⅞
Weight each net about, lbs.	4	4½	4½
Each	$2.00	2.30	2.50

BAY STATE*

Special Crucible Steel, Polished and Etched; Narrow Blade; Teeth Filed and Set.

BAY STATE*; Champion Tooth; 14 Gauge.

Nos.	B2025	B2025½	B2026	B2026½
Length, feet	5	5½	6	6½
Width at Center, Inches	3	3	3	3
Weight each net abt. lbs.	3½	4	4½	5
Each	$1.70	1.80	2.10	2.30

Put Up in Assortments of One to Six Wide Blade, or One to Twelve Narrow Blade Saws, as Ordered. Weight about 7 lbs.

CROSS CUT SAWS.

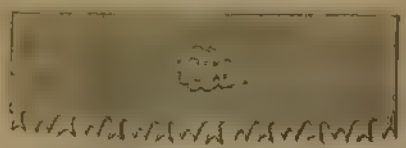
WITHOUT HANDLES.

OAK LEAF®—WIDE BLADE

Special Crucible Steel, Polished and Etched; Ground Gradually Thinner from Teeth to Back; TEETH FILED AND SET.

OAK LEAF®; Plain or Peg Tooth, Wide Blade; 14x16 Gauge

Nos.	E1334½	E1335	E1335½	E1336
Length, feet	5	5	5	6
Width at Center, inches	5¼	5½	5¾	6
Weight each net abt., lbs	5	5	5	6
Each	$2.80	3.10	3.40	3.60

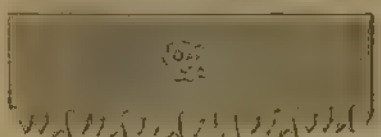


OAK LEAF®, Champion Tooth, Wide Blade; 14x16 Gauge.

Nos.	E1285	E1285½	E1286	E1286½
Length, feet	5	5	6	6
Width at Center, inches	5¾	6¼	6¾	7
Weight each net abt., lbs.	5	6	7	8
Each	$3.30	3.60	3.80	4.20

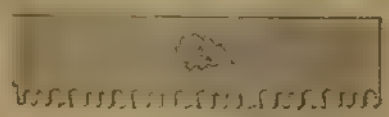
OAK LEAF®; Lance Tooth, Perforated, Wide Blade; 14x18 Gauge

Nos.	E1335¼	E1336	E1336½
Length, feet	5½	6	6½
Width at Center, inches	5¾	6¾	6¾
Weight each net about, lbs	5	6	7
Each	$4.00	4.50	4.80



OAK LEAF®, Tuttle Tooth, Wide Blade; 14x18 Gauge

Nos.	E1295	E1295½	E1296	E1296½
Length, feet	5	5½	6	6½
Width at Center, inches	5¾	6¼	6¾	7
Weight each net abt., lbs.	5	6	7	8
Each	$3.70	3.80	4.00	4.20

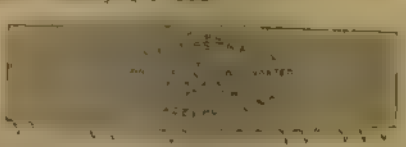


OAK LEAF®; Tri-Cut, Dexter Pattern Tooth, Wide Blade, 14x18 Gauge

Nos.	E1316	E1316½	E1317
Length, feet	6	6½	7
Width at Center, inches	6¾	6¾	7
Weight each net about	6	7	8
Each	$4.00	4.50	4.80

DISSTON, WIDE BLADE

High Grade Crucible Steel, Polished and Etched; Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.



DISSTON'S. Plain or Peg Tooth No. 2; 14x16 Gauge.

Nos.	D1034½	D1035	D1035½	D1036
Length, feet	4½	5	5½	6
Width at Center	5¾	6¼	6¾	7¼
Weight each net about, lbs	5	5	6	7
Each	$2.70	3.00	3.30	3.60
	2.00	2.30	2.70	4.00

For Shipment, One to Six Wide Blade Saws, as ordered are Wired [illegible]

CROSS CUT SAWS.

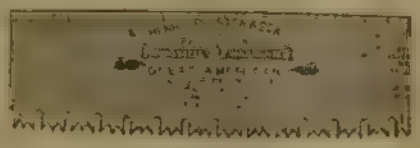
WITHOUT HANDLES.

DISSTON, WIDE BLADE

High Grade Crucible Steel; Polished and Etched; Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.

DISSTON'S. Diamond Tooth, No. 1; 14x18 Gauge.

Nos.	D1045	D1045½	D1046	D1046½
Length, feet	5	5½	6	6
Width at Center, inches	6¾	7	7¼	7
Weight each net abt., lbs.	5	6	7	8
Each	$3.70	3.85	4.20	4.55
	3.00	4.30	4.70	5.10

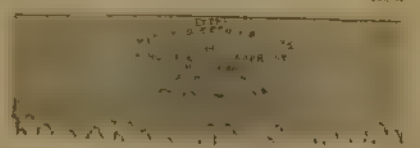


DISSTON'S
Great American Tooth, No. 1; 14x19 Gauge.

Nos.	D1265	D1265½	D1266
Length, feet	5	5½	6
Width at Center, inches	6¾	7	7¼
Weight each net about, lbs	5½	6	7
Each	$3.75	4.13	4.50
	1.20	4.60	5.00

DISSTON'S No. 1, Tuttle Tooth, 14x18 Gauge

Nos.	D1035½	D1036
Length, feet	5½	6
Width at Center, inches	7	7¼
Weight each net about, lbs	6	7
Each	$3.57	3.90
	4.00	4.30



DISSTON'S, No. 1, Champion Tooth; 14x18 Gauge.

Nos.	D1015½	D1016	D1016½
Length, feet	5	6	6½
Width at Center, inches	7¼	7½	7¾
Weight each net about, lbs	6	7	8
Each	$3.57	3.90	4.22
	3.95	4.30	4.65

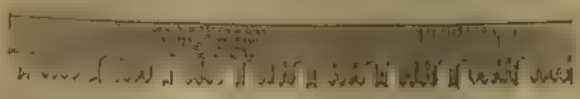
DISSTON'S No. 2 Champion Tooth, 14x16 Gauge

Nos.	D1025	D1025½	D1026	D1026½
Length, feet	5	5½	6	6½
Width at Center, inches	7¼	7½	7½	7¾
Weight each net abt. lbs	6½	7	7½	8
Each	$3.00	3.30	3.60	3.90
	3.30	3.65	4.00	4.30

DISSTON'S, NARROW BLADE

DISSTON'S, Triumph or Narrow Blade, Champion Tooth; 14 Gauge.

Nos.	D2015	D2015½	D2016	D2016½
Length, feet	5	5½	6	6½
Width at Center, inches	3¼	3½	3½	3¼
Wgt. each net about, lbs	3½	4	4½	5
Each	$1.80	1.93	2.16	2.34
	1.62	1.80	1.98	2.12



DISSTON'S; Triumph or Narrow Blade; Perforated Lance Tooth; 14 Gauge.

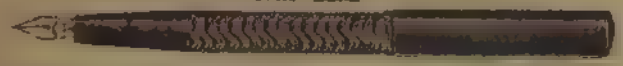
Nos.	D2045	D2045½	D2046	D2046½
Length, feet	5	5½	6	6½
Width at Center, inches	3¼	3½	3½	3¾
Weight each net about, lbs	3½	4	4½	5
Each	$2.15	2.02	2.70	2.88
	2.70	2.72	2.98	3.22

For Shipment, One to Six Wide Blade, or One to Two Narrow Blade Saws, as Ordered, are Wired to a Board Weighing [illegible]

FOUNTAIN PENS.

PATENT ELASTIC FEED

OAK LEAF



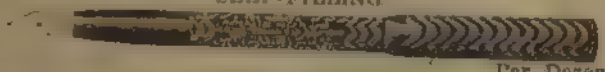
No. 1A—OAK LEAF, Hard Rubber. Fitted with Fine, Medium or Stub 18K Gold Pen; Full Chased Finish

ARTHUR A. WATERMAN & CO.
(Not Connected with The L. E. Waterman Co.)

Cut Showing Construction

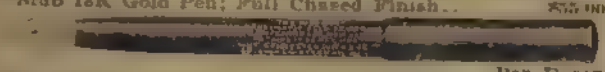
FILLING—Empty the ink sac (or reservoir) by twisting it, i. e., by turning the plug in the end of the barrel to the right. Keep turning till the screw comes to a dead stop. Then, as shown in the illustration, the ink sac is empty from the twisting. Next immerse the gold pen in the ink deeply enough to cover it quite up to the end of the holder; and with the gold pen thus immersed turn the end plug back (to the left) till it comes to a dead stop again—and the pen is filled. After filling wipe off any excess ink found about the gold pen and feed.

SELF-FILLING



Per Dozen

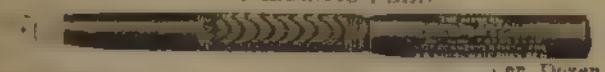
No. 50—Hard Rubber; Fitted with Fine, Medium or Stub 18K Gold Pen; Full Chased Finish.. $55.00



Per Dozen

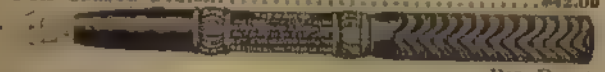
No. 80—Hard Rubber; Fitted with Fine, Medium or Stub 18K Gold Pen; Mottled Finish $38.00

PATENT ELASTIC FEED



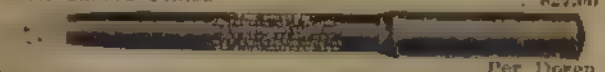
Per Dozen

No. 503½M—Hard Rubber; 18K Gold Filled Mountings, Fitted with Fine, Medium or Stub 18K Gold Pen, Full Chased Finish.....$42.00



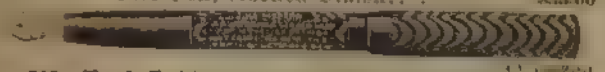
Per Dozen

No. 1031M—Hard Rubber; 18K Gold Filled Mountings, Fitted with Fine, Medium or Stub 18K Gold Pen, Full Chased Finish $27.00



Per Dozen

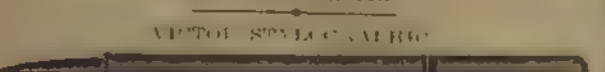
No. 003—Hard Rubber; Fitted with Fine, Medium or Stub 18K Gold Pen; Mottled Finish.. $35.00



No. 503—Hard Rubber; Fitted with Fine, Medium or Stub 18K Gold Pen; Full Chased Finish. $27.00

WHEN ORDERING FOUNTAIN PENS STATE WHETHER FINE, MEDIUM OR STUB PENS ARE WANTED

VICTOR STYLOGRAPHIC



Per Dozen

No. 35—Hard Rubber; The best Pen ever invented for Manifolding, Ruling, etc.....$15.00

One in a Cardboard Box, complete with Filler and directions for use; Weight per Dozen about 1 lb

SHOW CASES.

FOUNTAIN PEN

Plate Glass Front and Top, and Double Strength Glass Sides, with Removable Drawer, Plush Lined; Grooved for Displaying One Dozen A. A. Waterman's Fountain Pens; 3½ in. High; 2 in. Wide; 9¾ in. Long; Opens from Back.

No. 2—WITHOUT FOUNTAIN PENS .Each $2.30

One in a Cardboard Box; Weight Each about 5 lbs.

INK STANDS.

Ornamental Cast Iron, Etruscan Bronzed, Ground Surface, Base and Top, Rack for Two Pens

Per Dozen

No. 80—TWO HEAVY Ribbed Glass Bottles; Base 7½x4¼ in.; Weight per dozen about 36 lbs. .$13.00

One-twelfth Dozen in a Cardboard Box

No. 30—ONE HEAVY Ribbed Glass Bottle; Base 4¼x4½ in., Weight per dozen about 18 lbs. Per Dozen, $7.00

One-twelfth Dozen in a Cardboard Box

Cast Iron, Etruscan Bronzed Stand with Ground Surface Top and Base, Rack for Two Pens

Per Dozen

No. 280—TWO PLAIN Glass Revolving Bottles; Weight per doz. about 15 lbs....$8.00

One-sixth Dozen in a Cardboard Box.

Per Dozen

No. 270—ONE PLAIN Glass Revolving Bottle; Weight per dozen about 9 lbs. $6.00

One-fourth Dozen in a Cardboard Box

Cast Iron, Etruscan Bronzed Hinged Cap

Per Dozen

No. 2½F 2½ in. Diameter $1.60

No. 3F 3 in. Diameter 1.80

Weight per Dozen about 4 lbs

Very Sensitive Black Rubber Valve. 2½ in. Square

Per Dozen

No. 2—Weight per doz. abt. 9 lbs. $4.80

Round Heavy Black Rubber Valve, 2½ in. Diameter, Adjustable Dip

Per Dozen

No. 200 Weight per doz. abt. 9 lbs. $3.50

Cut Glass Base, 3 in. Square; Black Rubber Plunger, Adjustable Dip. Can be Filled as Easily as an Open Inkstand.

Per Dozen

No. 203—Wgt. per doz. abt. 15 lbs. .$42.00

One-twelfth Dozen in a Package

PEN RACKS.

Spiral Brass Wires, Cast Iron Base, Pen Extractor at One End, Bronze Green Finish.

Per Dozen

No. 5—Weight per dozen abt. 4 lbs $1.80

Spiral Nickel Tin Base Gilt Finish Wire, 6 in. Long, Coil 4½ in. Long.

Per Dozen

No. 8N—Weight per dozen about 1 lb. $1.50

One Dozen in a Cardboard Box.

METAL WORKERS' CRAYONS.

Will Mark on Iron, Steel, Brass, Copper, Tin, Wood or Painted Surfaces. The Mark will not burn off when used in a fire by Blacksmiths, Boiler Makers and Machinists. It is cheaper, stronger and more convenient than any other substance used for marking rough surfaces.

Per Gross

No. 5—5 IN. SOAPSTONE CRAYON; ½x3/16 in. Not round. Weight per gross about 8 lbs. $5.00

One Gross in a Wood Box.

SCHOOL CRAYONS.

Per Gross

No. SC WHITE. Weight per gross about 2¾ lbs. $0.20

One Gross in a Box; 100 Gross in a Case.

PENCIL POINT PROTECTORS.

BRASS NICKEL PLATED Screw Inserted Rubber.

Per Gross

No. 307—Weight per gross about 1½ lbs. $7.00

One-half Gross in a Cardboard Box.

PENCIL POCKETS.

Leather; Self-attaching to edge of Vest Pocket; Held by Spring, which also holds Pencil in place; Has Pin attachment on back so that it can be attached to Shirt or Suspenders; Will Hold securely Six Pencils or Fountain Pen of any size or kind.

Per Dozen

No. D—DIAMOND; Weight per dozen about ½ oz. $1.70

One Dozen Assorted Colors, Red and Black, on an Easel Card; Four Cards in a Cardboard Box.

PEN HOLDERS.

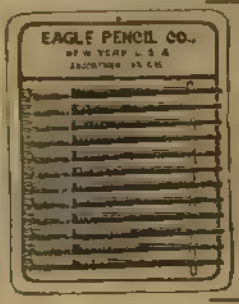
WITHOUT PENS. SWELL PATTERN; ASSORTED.

Wood; Brass and Nickeled Tips; Patent Fasteners; Assorted Sizes and Colors, Red, Black and Plain Polished.

Per Assortment

No. 4—Weight per Assortment about 1 lb. $0.75

One-half Gross in a Cardboard Box; Sold only in Complete Assortments.



ASSORTED

Wood; Assorted Styles and Colors, Black, Red and Plain Polished, with Cork Finger Pieces; On Cards, Nickel Fasteners.

Per Gross

No. 1015—CORTEX, TAPER. Wgt. per Gro. abt. 4 lbs. ... $12.50

One-twelfth Gross on a Card. One-half Gross, 6 Cards, in a Cardboard Box. Do not Break Cards.

ASSORTED

Wood; Assorted Styles and Colors, Black, Red and Plain Polished, with Knurled Ends; On Cards. Nickel Fasteners.

Per Gross

No. 1019—COMMERCIAL, TAPER; Weight per Gross about 4 lbs. $11.50

One-twelfth Gross on a Card; One-half Gross, 6 Cards, in a Cardboard Box. Do not Break Cards.

PEN HOLDERS.

6 in. Wood; Large Plain Polished Rubber Tip, WITHOUT PENS.

Per Gross

No. 14—SWELL. Weight per gross about 7 lbs. $15.00

One-half Gross in a Cardboard Box.

6 in. Wood; Painted Red, with Polished Steel Tips.

No. 324—SCHOOL, SWELL. Weight per gross about 1¾ lbs. ..... Per Gross, $2.00

Corrugated Cedar 6 in. Painted Red, With Polished Steel Tips.

No. 320—SCHOOL STRAIGHT. Weight per gross about 1½ lbs. ..... Per Gross, $1.00

One Gross in a Cardboard Box.

STEEL PENS.

CUTS FULL SIZE

Are manufactured from the Finest Quality of Steel; Are Elastic and Well Tempered; Adapted to all around Business, Office and School Purposes.

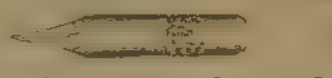
OAK LEAF

Per Gross

No. E302—FALCON $0.80

No. E306—BANKERS' .80

No. E311—LARGE SPENCERIAN .90



No. E311—MEDIUM SPENCERIAN .90

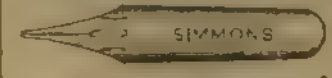
No. E315—POPULAR STUB .80

No. E305—ENGROSSING STUB .80

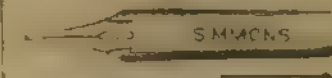
SIMMONS

Per Gross

No. 301—BANK ... $1.40

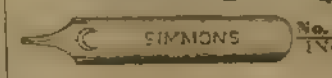


No. 307—RAPID . 1.40

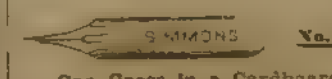


No. 310—RUN EASY 1.40

No. 312—PROBATE STUB . . . 1.40



No. 304—STUB OR ENGROSSING . . . 1.40



No. 308—EXTRA FINE 1.40

One Gross in a Cardboard Box. Weight per Gross about 3 oz.

OFFICE CLOCKS

REGULATOR F

8 Day Time, Oak Case, Fancy Carved Moulding and Trimmings, Golden Finish, Glass Doors, Roman Numerals; Height 38½ inches.

	Each
No. SE12—12 inch Dial	$7 70

One in a Box, Three in a Crate, Crate Weighs 90 lbs.
(Made by Sessions Clock Co.)

REGULATOR E CALENDAR

8 Day Time and Calendar, Oak Case, Golden Finish; Glass Doors; Roman Numerals; Height 38½ inches; Fancy Carved Moulding and Trimmings.

	Each
No. SEC12—12 inch Dial	$8 80

One in a Box, Three in a Crate, Crate Weighs 90 lbs.
(Made by Sessions Clock Co.)

RAMONA

8 Day Time, Weathered Finished Oak Case, Mission Style; Glass in Lattice Work; Brass Figures, Hands, Hinges and Catch, Height 31 inches.

	Each
No. MR12—12 inch Dial	$5 60

One in a Box, Three in a Crate; Crate Weighs 70 lbs.
(Made by Sessions Clock Co.)

CAPITOL

8 Day Weight Time, Oak Case, Golden Finish; Case is Handsomely Carved and has Fancy Ornaments; Glass Door; Roman Numerals; Provided with Second Hand; Height 54 inches.

	Each
No. AC8—8 inch Dial	$26 40

One in a Case; Weight 59 lbs.

(Made by Ansonia Clock Co.)

"DIAMOND EDGE IS A QUALITY PLEDGE"

OIL LAMP STOVES

GAME JUNIOR

No. 1J

No. 2J

No. 3J

Japanned Cast Iron Fount, Brass Burner, Tin Chimney with Mica, Cast Top Grate, 4 in. Wicks

Nos.	1J	2J	3J
Number of Burners	1	2	3
Weight Per Dozen, Lbs.	50	80	120
Each	$1 00	1.80	2 50

SUMMER GIRL

No 1

No 2

No 3

Japanned Cast Iron Fount, 4 in. Cast Burners, Tin Chimney with Removable Nickel Plated Mica Frames, Cast Top Grates, 4 in. Wicks

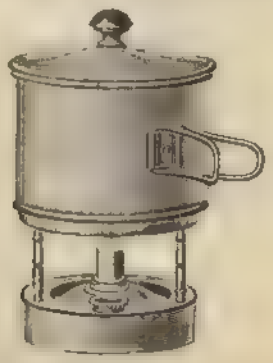
Nos.	1	2	3
Number of Burners	1	2	3
Weight Per Dozen, Lbs.	70	150	160
Each	$1 20	2 40	3 30

KOHOLIA

For burning purposes Is better than alcohol, because Koholia is always pure and can be relied on to give satisfactory service at all times

	Per Dozen
½ Pint Bottle	$ 7 20
1 Pint Bottle	8 50
1 Quart Cans	14 40

TRAVELER'S COMPANION



	Each
No. 32 1½ Pint, Lamp Stand and Cooking Pan, Nickel Plated, Powerful Alcohol Lamp, Telescopes Inside of Pan, Very Convenient	$3.50

The Burner and Stand fit inside the cup Handles fold close to cup

One in a Box

ALCOHOL BOILER

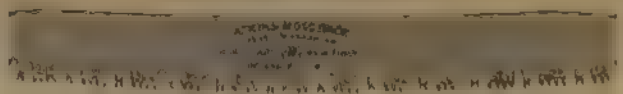
Aluminum

	Each
No. 3320—Collapsible, Extra Heavy, Capacity 1 Pint	$1 50

A serviceable, compact and reliable boiler.
The Burner and Stand fit inside the cup. Handles fold close to cup.

Weight Per Dozen 5 Pounds
One in a Box

CROSS CUT SAWS.



‡ATKINS', Columbian; Moss Back, Special Steel, Tuttle Tooth, with Diamond Point, Perforated; 14x18 Gauge.

Nos.	A1404	A1404½	A1405	A1405½	A1406
Length, feet	4	4½	5	5½	6
Width at Center, inches	5	5¼	5½	5¾	6¼
Weight each net about lbs	4	4½	5¼	6	7
Each	$3 80	3 95	3 50	3 85	4 20
	3.60	4.20	4.50	4.90	5.40

Each	A1406½	A1407	A1407½	A1408
Length, feet	6½	7	7½	8
Width at Center, inches	6¾	6¾	7	7½
Weight each net about lbs	8	9	11	12½
Each	$4 45	4 80	5 25	5 60
	5.80	6.30	6.70	7.10

‡ATKINS', Rex Tooth, Special Steel, Segment Ground; 14x19 Gauge.

Nos.	A1424	A1424½	A1425	A1425½	A1426
Length, feet	4	4½	5	5½	6
Width at Center, inches	6¼	6¼	6⅜	6⅜	7
Weight each net about, lbs	5	5½	6	6½	7
Each	$3 10	3 50	4 10	4 60	5 40
	4.00	4.60	5.20	6.10	7.10

Nos.	A1426½	A1427	A1427½	A1428
Length, feet	6½	7	7½	8
Width at Center, inches	7⅛	7⅜	8	8¼
Weight each net about, lbs	8¼	10½	12½	14½
Each	$6 46	7 30	8 20	9 10
	8.20	9.30	10 80	11.80

For ATKINS' Saws 14x19 Gauge advance list 50c (67c) each over 14x18 Gauge.

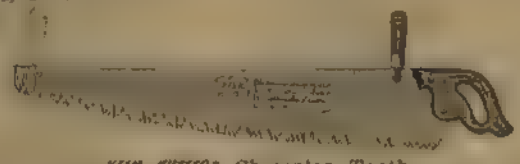
For Shipment, One to Six Wide Blade Saws, as ordered, are Wired to a Board or Strip Weighing about 7 lbs.

ONE MAN CROSS CUT SAWS.

WITH SUPPLEMENTARY HANDLE.

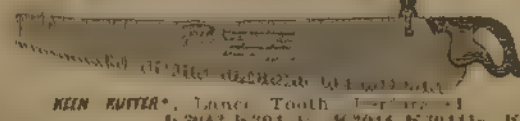
*KEEN KUTTER**

Highest GRADE CRUCIBLE STEEL, EXTRA POLISHED AND ETCHED, Thin Back, Carefully Ground, Teeth Extra Filed and Set ready for use, Regular (or Butt) Handle Selected Beechwood, Plain Sides, with Varnished Edges; Supplementary Handle, Varnished Beechwood, Polished Ferrule.



*KEEN KUTTER** Champion Tooth.

Nos.	K3002½	K3003	K3003½	K3004	K3004½	K3005
Length, ft	2½	3	3½	4	4½	5
Wgt. each net abt., lbs	2½	3	3½	4	6	7
Each	$2.20	2.50	2.90	3 30	3.70	4.06



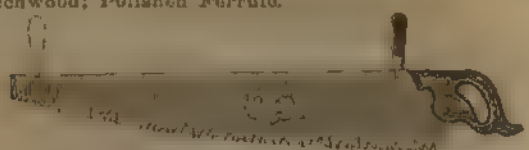
*KEEN KUTTER**, Lance Tooth [illegible]

Nos.	K3043	K3043½	K3044	K3044½	K3045
Length, feet	4	4½	5	5½	6
Wgt. each net abt., lbs	4	4½	5	6	6½
Each	$2 80	3 30	3.70	4 10	4 50

Three in a Paper Packa[illegible] Thirty six in a Wood Box

OAK LEAF*

SPECIAL CRUCIBLE STEEL, POLISHED AND ETCHED, Carefully Ground; Teeth Filed and Set; Regular (or Butt) Handle, Selected Beechwood, Plain Sides, with Varnished Edges Supplementary Handle, Varnished Beechwood; Polished Ferrule.



OAK LEAF* [illegible] Lance Tooth

Nos.	E3032½	E3033	E3033½
Length, feet	3	3	3
Weight each net about, lbs	2½	3	3½
Each	$1.80	2.10	2.40

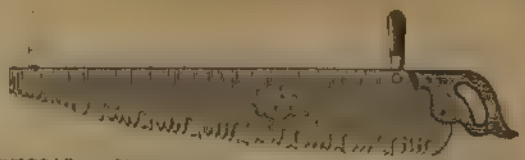
Nos.	E3034	E3034½	E3035
Length, feet	4	4½	5
Weight each net about lbs	4	5	6
Each	$2.80	3 10	3.40

Thirty six in a Wood Box

‡ Designates those that are not carried in stock and can only be furnished by shipment direct from factory.

ONE MAN CROSS CUT SAWS.

WITH SUPPLEMENTARY HANDLE.

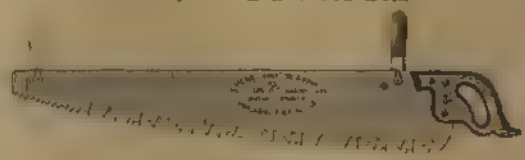


SPECIAL CRUCIBLE STEEL, POLISHED AND ETCHED, Carefully Ground; Teeth Filed and Set; Regular (or Butt) Handle, Selected Beechwood, Plain Sides, with Varnished Edges, Supplementary Handle, Varnished Beechwood; Polished Ferrule.

OAK LEAF*; Lance Tooth; Perforated.

Nos.	E3103½	E3104	E3104½
Length, feet	3½	4	4½
Weight each net about, lbs	4½	5	6
Each	$2.90	3.30	3.50

Thirty-six in a Wood Box.



DISSTON'S

High Grade Crucible Steel, Polished and Etched, Teeth Filed and Set ready for use, Regular (or Butt) Handle, Selected Beechwood, Plain Sides, with Varnished Edges; Supplementary Handle, Varnished Beechwood; Polished Ferrule.

DISSTON'S Champion Tooth

Nos.	D3013	D3013½	D3014	D3014½	D3015
Length, feet	3	3½	4	4½	5
Weight each net about, lbs	3½	4	5	6	7
Each	$2.25	2 60	3 00	3 30	3 70
	2 30	2 60	3.00	3 40	3 70

DISSTON'S

High Grade Crucible Steel, Polished and Etched; Teeth Filed and Set Ready for use; Regular (or Butt) Handle, Selected Beechwood, Plain Sides, with Varnished Edges Supplementary Handle, Varnished Beechwood; Polished Ferrule

DISSTON'S, Great American Tooth, Plain Back.

Nos.	D3022½	D3023	D3023½	D3024
Length, feet	2½	3	3½	4
Weight each net about lbs	[illegible]	[illegible]	[illegible]	[illegible]
Each	$1 75	[illegible]	[illegible]	[illegible]
	2 30	2 60	2 80	3 30

Nos.	D3024½	D3025
Length, feet	[illegible]	[illegible]
Weight each net about, lbs	[illegible]	[illegible]
Each	[illegible]	[illegible]
	3 70	4 10

About Fifty in a Wood Box

No. A3 8
ATKINS'

High Grade Crucible Steel, Polished and Etched; Teeth Filed and Set Ready for use; Regular (or Butt) Handle, Selected Beechwood, Plain Sides, with Varnished Edges, Supplementary Handle, Varnished Beechwood; Polished Ferrule.

ATKINS', Tuttle Tooth.

Nos.	A3063	A3063½	A3064	A3064½	A3065
Length, feet	3	3½	4	4½	5
Weight each net about lbs	3	4	5	6	7
Each	$1 80	2.10	2.40	2 70	3 00
	2.40	2.80	3.20	3.60	4.00

‡ATKINS', Lance Tooth, Perforated.

Nos.	A3083	A3083½	A3084	A3084½	A3085
Length, feet	3	3½	4	4½	5
Weight each net about lbs	3½	4	5	6	7
Each	$1 92	2 24	2 56	2 88	3 20
	2.50	3.00	3.40	3.80	4.20

Twenty-five in a Wood Box.

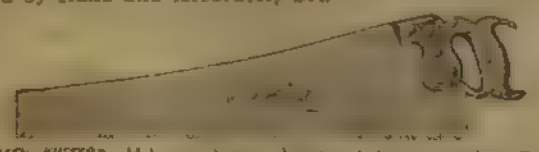
‡ Designates those that are not carried in stock and can only be furnished by shipment direct from factory.

HAND, RIP AND PANEL SAWS.

HAND, RIP AND PANEL SAWS.

KEEN KUTTER

HIGHEST GRADE CRUCIBLE SPRING STEEL. Extra Polished and Fancy Etched Blade, Carved and Varnished Applewood Handle, Fastened with Special Nickel Plated Screws. Taper-Ground Thin Back Blade; Teeth Bevel-Filed by Hand and Accurately Set.



KEEN KUTTER, HAND; Sway Back, with Four Screws.

No.	K8S 26	K8S 28
Length of Cutting Edge, in.	26	28
Greatest Width of Blade, in.	7⅜	7¾
Width of Blade at Point, in.	2½	2⅝
Points to the inch.	6, 7, 8, 9, 10, 11, 12	5, 6, 7
Weight per dozen about lbs.	34	36
Per dozen.	$36.00	31.00

KEEN KUTTER, RIP; Graduated Teeth; Sway Back with Four Screws.

No.	K8SR 24	K8SR 26	K8SR 28
Length of Cutting Edge, in.	24	26	28
Greatest Width of Blade, in.	7¼	7¼	7¼
Width of Blade at Point, in.	2⅜	2⅜	2⅜
Points to the inch.	7, 8, 9, 10, 11, 12	6, 7, 8, 9, 10, 11, 12	5, 6, 7, 8, 9, 10, 11, 12
Wgt. per doz. about, lbs.	32	34	36
Per dozen.	$25.00	29.00	31.00

KEEN KUTTER, HAND; Sway Back, 18 and 20 in., with 3 Screws; 22 and 24 in., with 4 Screws.

Nos.	K8SP18	K8SP20
Length of Cutting Edge, in.	18	20
Greatest Width of Blade, in.	5¼	5⅝
Width of Blade at Point, in.	2⅛	2⅜
Points to the inch.	8, 9, 10, 11, 12	8, 9, 10, 11, 12
Weight per dozen about lbs.	14	16
Per dozen.	$23.00	24.00
Nos.	**K8SP22**	**K8SP24**
Length of Cutting Edge, in.	22	24
Greatest Width of Blade, in.	6¼	6¾
Width of Blade at Point, in.	2⅝	2¾
Points to the inch.	8, 9, 10, 11, 12	8, 9, 10, 11, 12
Weight per dozen about, lbs.	30	32
Per dozen.	$25.00	26.00

THE MOST PERFECT HAND SAW FOR CARPENTER'S USE EVER OFFERED TO THE TRADE

The Tempering of this Saw is so Uniform and Perfect that the Blade may be Bent into a Circle, yet will Spring Back Perfectly Straight.

KEEN KUTTER, HAND, Narrow, Sway Back, with Four Screws

No.	K8S 8
Length of Cutting Edge, inches	26
Greatest Width of Blade, inches	6¾
Width of Blade at Point, inches.	1⅝
Points to the inch	7, 8, 9, 10, 11, 12
Weight per dozen about lbs.	20
Per dozen	$29.00

One-third Dozen in a Cardboard Box.

BEVEL HAND FILED TEETH

Taper Ground Thin Back Blade, Lessens Friction and Prevents Binding.

Packed in Individual Cardboard Boxes.

KEEN KUTTER

Highest Grade Refined Saw Steel, Tough Body and Evenly Tempered Polished and Etched Blade, Fancy Varnished Applewood Handle, fastened with Five Nickel Plated Screws.

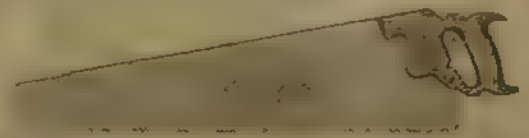
KEEN KUTTER, CARPENTERS' HAND; Skew Back

No. K500—Length of Cutting Edge 26 in.; Greatest Width of Blade 7 in.; Width at Point 2⅝ in.; Points to in. 7, 8, 9, 10, 11, 12. Weight per dozen about 30 lbs. Per Dozen, $45.00

One-third Dozen in a Cardboard Box

KEEN KUTTER

HIGHEST GRADE CRUCIBLE SPRING STEEL. Extra Polished and Fancy Etched Blade; Carved and Varnished Applewood Handle, Fastened with Special Nickel Plated Screws; Taper-ground Thin Back Blade, Teeth Bevel-Filed by Hand and Accurately Set.



KEEN KUTTER, HAND; Straight Back, with Four Screws.

No.	K812 28
Length of Cutting Edge, inches.	28
Greatest Width of Blade, inches.	7¾
Width of Blade at Point, inches	2⅝
Points to the inch.	6, 7, 8, 9, 10, 11, 12
Weight per dozen about, lbs.	36
Per dozen	$39.50

KEEN KUTTER, RIP; Graduated Teeth; Straight Back, with Four Screws.

No.	K812 28
Length of Cutting Edge, inches.	28
Greatest Width of Blade, inches.	7¼
Width of Blade at Point, inches.	2⅜
Points to the inch.	5, 6, 7, 8
Weight per dozen about lbs.	38
Per dozen	$44.50

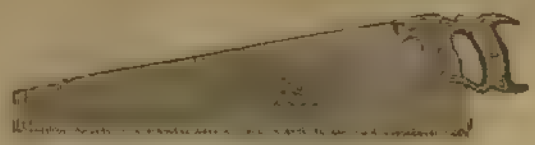
KEEN KUTTER, PANEL; Straight Back, 18 and 20 in., with 3 Screws; 22 and 24 in., with 4 Screws.

Nos.	K812 18	K812 20
Length of Cutting Edge, inches.	18	20
Greatest Width of Blade inches.	5⅛	5⅝
Width of Blade at Point	2	2⅛
Points to the inch.	9, 10, 11, 12	9, 10, 11, 12
Weight per dozen about lbs.	14	16
Per dozen.	$31.00	32.50
Nos.	**K812 22**	**K812 24**
Length of Cutting Edge, inches.	22	24
Greatest Width of Blade, inches.	6¼	6⅝
Width of Blade at Point, inches.	2½	2⅝
Points to the inch.	9, 10, 11, 12	9, 10, 11, 12
Weight per dozen about, lbs.	30	32
Per dozen.	$35.00	37.00

One-third Dozen in a Cardboard Box.

HIGHEST GRADE, EXTRA REFINED CRUCIBLE SPRING STEEL

Perfect Finish on Blade and Extra Carved Large Handle, Screws Set Well Apart



KEEN KUTTER

HIGHEST GRADE CRUCIBLE SPRING STEEL; Extra Polished and Fancy Etched Blade; Carved and Varnished Applewood Handle, Fastened with Special Nickel Plated Screws.

KEEN KUTTER, HAND; Straight Back, with Four Screws.

Nos.	K816 26	K816 28
Length of Cutting Edge, inches.	26	28
Greatest Width of Blade, inches.	7⅜	7¾
Width of Blade at Point, inches.	2⅝	2⅝
Points to the inch.	6, 7, 8, 9, 10, 11, 12	6, 7, 8
Weight per dozen about, lbs.	34	36
Per dozen.	$29.00	33.00

KEEN KUTTER, RIP; Graduated Teeth; Straight Back, with Four Screws

No. K816R28—Length of Cutting Edge 28 in.; Greatest Width of Blade 7¾ in.; Width of Blade at Point 2⅝ in.; Points to the in. 4½, 5, 5½, 6; Weight per dozen about 26 lbs. Per Dozen, $33.00

KEEN KUTTER, PANEL; Straight Back, 18 and 20 in., with 3 Screws, 22 and 24 in., with 4 Screws.

Nos.	K816 20	K816 22	K816 24
Length of Cutting Edge, in.	20	22	24
Greatest Width Blade in.	5⅝	6¼	6¾
Width Blade at Point, in.	2⅜	2⅝	2⅝
Points to the inch.	9, 10, 11, 12	9, 10, 11, 12	9, 10, 11, 12
Wgt. per doz. about, lbs.	16	18	23
Per dozen.	$21.50	26.00	27.00

One-third Dozen in a Cardboard Box

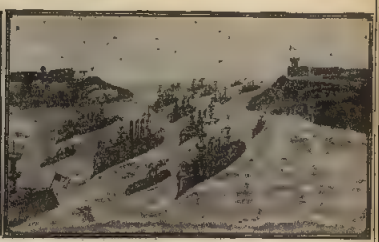
THE SHURE WINNER PRICE LIST

Our New American Army and Navy Needle Book

Undeniably the biggest value, the quickest seller, surest to please, biggest profit maker.

Design Patented by N. S. Co. 1909

Front View.



Back View

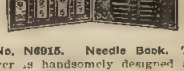
No. N6920. Our "New American" Army & Navy Needlebook, while our old style needlebook had been one of the most successful sellers in this line because of the good value and nice appearance, we dare say that this one excels it so in these particular features that there is not any comparison to be made between the two. We have had designed and executed in colors by eminent artist two artistic views of the American Army and Navy life. These pictures are executed on the covers in colors the appearance of which, in connection with the excellent contents, by far makes this book the most valuable and attractive and biggest profit maker in the Country of any goods in this line.

The contents are: 5 packages Peerless silver steel needles, warranted, sizes 3 to 9, 5 to 10, 6 to 7. There is no needle in the market better. There is also an assortment of 15 other cloth stuck needles such as darners, mending needles, stitching needles, crewel needles, glove needles, straw working needles, worsted needles, etc This book as a whole, is good value and artistic, and if offered by the dealer at 10 cents each, it should be a phenomenal seller, at the same time paying a very large profit to the handler. Try some before you decide on other styles

Gross ..... 2.75 | Dozen ..... .25

Other Needle Books

This page contains quite the choicest sellers and values that are offered in the world's market.



No. N6915. Needle Book. The cover is handsomely designed and lithographed in colors, each one in envelope marked "25 cents each" Contains four papers sewing needles, each paper stuck on cover; 1 quilting, 1 piercing, 1 shoe needle Size, closed, 4¾x3¾ in

Gross ..... 2.00 | Dozen ..... .17

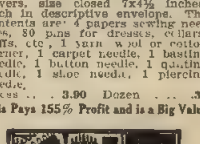
No. N6928. Needle Book and Ladies' Companion, contains a full variety of large eye needles, 5 papers cloth stuck needles, 25 in each paper, also an assortment of darning needles, wool, yarn, cotton, carpet and button needles, etc. This is a select assortment of the best popular selling styles and sizes. The needles are highly polished and perfectly tapered making sewing easy. Just the proper assortment for the requirements of the average family. Each in envelope.

Gross. ..... 5.00 Dozen..... .43

No. N6917. Needle Book. Handsomely designed and lithographed covers, size closed 7x4½ inches, each in descriptive envelope. The contents are: 4 papers sewing needles, 80 pins for dresses, collars, cuffs, etc, 1 yarn wool or cotton darner, 1 carpet needle, 1 basting needle, 1 button needle, 1 quilting needle, 1 shoe needle, 1 piercing needle.

Gross ... 3.90 Dozen ... .34

This Pays 155% Profit and is a Big Value



No. N6918. Needle Book. Tastily designed lithographed cover in colors. Size opened 7x13½ inches, filled with exceptionally good contents, viz.: 3 papers sewing needles, 80 pins for dresses, collars, cuffs, etc., 1 steel bodkin or tape needle, 1 yarn, wool or cotton darner, 1 carpet needle, 1 basting needle, - button needle, 1 quilting needle, 1 shoe needle, 1 hat or bonnet pin, 2 cloak or shawl pins, 3 toilet pins, 8 hair pins 12 hooks and eyes.

Gross ..... 5.25 | Dozen ..... .45

Our "Jumbo" Needlebook

No. N6919. Needle Book. Finely designed and lithographed cover. Size opened, 7x13½ inches each in a neat descriptive envelope, stamped "25 cents." The contents are 4 papers sewing needles, 1 polished steel bodkin, 2 double long yarn darners, 2 medium long yarn darners, 2 fine long yarn darners, 2 wool darners, 2 short yarn darners, 2 basting needles, 2 crewel needles, 2 straw or milliners' needles, 2 glove or fur needles, 2 button needles, 1 chenille or lace needle, 1 tapestry or rug needle, 2 bonnet pins, 2 hat pins, 2 shawl pins 2 cloak pins, 6toilet pins, 48 white pins tempered in oil; 48 black pins, tempered in oil, 1 crochet needle

Gross ..... 9.50 | Dozen ..... .80

Magic Needle Threader

A Distinguished Seller

No. N25. Magic Needle Threader. The genuine, the original and the best goods made.

Gross ..... 2.15 | Dozen ..... .20

PADLOCK ASSORTMENTS.

Per Assortment.

No. 1000—ASSORTMENT: Consists of 4 Dozen Padlocks, including ⅙ dozen which are Mounted on Display Board, 9x9 in.; A Box or Container is fastened to Rear of Display Card, Forming an Easel and Stock Container for the 3 dozen Stock Locks; Display Board and Stock Container Made of Heavy Cardboard, Finished in Imitate Mahogany Wood; Each Padlock in Container is Packed in Individual Cartons and Numbered so as to Readily Identify it with Sample on Board; A Printed Suggested Retail Price List is Pasted on Inside of Hinged Cover of Container....$15.00

The Following Numbers and Quantities of Padlocks are Included in Assortment:

½	Dozen No. 2 ¾	1/3	Dozen No. 25,
7/12	Dozen No. 17,	½	Dozen No. 4010½,
½	Dozen No. 613,	¼	Dozen No. 60,
⅙	Dozen No. 37,	¼	Dozen No. 80,
1/3	Dozen No. 27,	⅙	Dozen No. 732.

All Numbers are Carried Regularly in Stock; For Detail Description see Padlock Pages.

One Assortment in a Fibre Box; Weight per Assortment about 16 lbs.

PADLOCK ASSORTMENTS.

SOLD ONLY IN FULL ASSORTMENTS.

No. 242—ASSORTMENT: Consists of One dozen 2 in. Wrought Steel Padlocks; First Four, Brass Plated, 6 Lever, 12 Changes, with 2 Flat Steel and 2 Barrel Keys; Second Four are Old Copper Finished, 3 Lever, 3 Wards, 12 Changes, all with Flat Steel Keys; Last Four, Copper Finish, 1 Tumbler, 1 Ward, 6 Changes, all with Barrel Keys; Mounted on Attractive Display Card Made in Shape of a Padlock; The Case is Printed in a Bright Yellow With Black Border and Shackle, with Easel Back; Size of Card, 16¾x11 in. The Keys are Secured to the Card so they may be Readily Removed; Weight per Card about 4½ lbs....Per Card, $4.80

One in a Cardboard Box.

Hardwood Varnished Cabinet; Rear of which is Fitted with Shelves for Padlock Stock which is Protected by Hinged Door; Each Lock in Cabinet Packed in Individual Cartons Bearing Corresponding Number to the List Number Shown on Mounted Samples; A Suggested Printed Retail Price List is Pasted on Inside of Hinged Door.

Per Assortment

No. 182—ASSORTMENT; Consists of 11½ DOZEN PADLOCKS, including 1½ Dozen Mounted for Display, in 20 Different Styles; Weight per assortment about 55 lbs.....$26.00

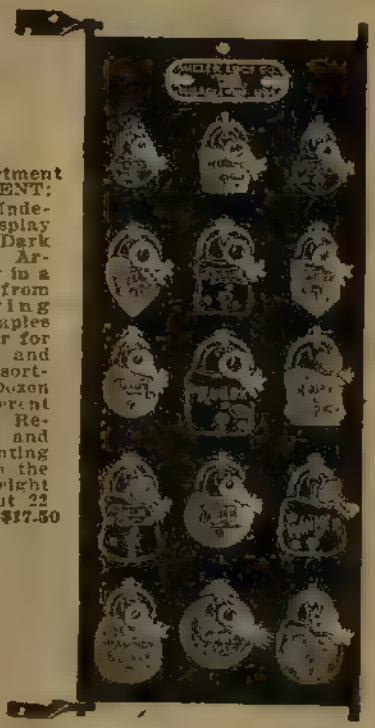
The Following Numbers and Quantities of Padlocks are Included in Assortment:

5/12 dozen	185B	to retail at	$0.15 each.....	$0.75
5/12 dozen	499	to retail at	.15 each.....	.75
5/12 dozen	185	to retail at	.15 each.....	.75
5/12 dozen	490	to retail at	.15 each.....	.75
5/12 dozen	503	to retail at	.25 each.....	1.25
5/12 dozen	502	to retail at	.25 each.....	1.25
5/12 dozen	1905	to retail at	.25 each.....	1.25
5/12 dozen	913	to retail at	.25 each.....	1.25
1/6 dozen	11FBP	to retail at	.25 each.....	.50
1/6 dozen	52	to retail at	.35 each.....	.70
5/12 dozen	504	to retail at	.35 each.....	1.75
1/6 dozen	510	to retail at	.25 each.....	.50
1/6 dozen	512	to retail at	.50 each.....	1.00
5/12 dozen	32	to retail at	.25 each.....	1.25
5/12 dozen	115 J	to retail at	.25 each.....	1.25
5/12 dozen	1405 B	to retail at	.25 each.....	1.25
1/3 dozen	4010½	to retail at	.50 each.....	2.00
1/12 dozen	222	to retail at	.75 each.....	.75
1/12 dozen	2910¾	to retail at	.60 each.....	.60
1/12 dozen	1 M	to retail at	.75 each.....	.75

20 Padlocks, one each of the above on Display Board 6.65

All Numbers Contained in Assortment can be Furnished Separately from Our Stock

PADLOCK ASSORTMENTS.



Per Assortment

No. 900 — ASSORTMENT: Consists of One Indestructible Steel Display Shutter, Finished in Dark Green, 9¼x21 in., Arranged for Swinging in a Vertical Position from Shelving or Hanging from Hook; 15 Staples are Fitted to Shutter for Supporting Locks and Keys. Each Assortment Contains 6¾ Dozen Padlocks in 15 Different Patterns. Suggested Retail Selling Prices and Directions for Mounting Locks are Pasted on the Back of Shutter. Weight per assortment about 22 lbs. $17.50

Per Card

No. P713—ASSORTMENT: Consists of One Dozen Wrought Steel Padlocks Mounted on Heavy Cardboard Display Stand, 18x15½ in., Printed in Gold; Each Card is Fitted with Wire Easel by which it may be made to Stand on Show Case. Locks are Assorted, Half Brass Plated and Half Japanned; ⅓ Dozen 1¼ in. Locks and ⅔ Dozen 1½ in. Locks. Keys are Arranged so they can be Unhooked and Used to Remove Padlocks; Weight per card about 3 lbs. $2.40

Per Card

No. E—ASSORTMENT: Consists of One Dozen Rugby Padlocks Mounted on Heavy Cardboard Display Stand, 13x8 in. Printed Dark Blue, with Gold Borders. Each Card is Fitted with Eyelet for Hanging up, and Wire Easel by which it may be made to Stand on Show Case; Locks are Assorted ⅓ Dozen Each Finish Brass Plated, Old Copper and Japanned; Keys are so arranged that they can be Unhooked and Used to Remove Padlocks; Weight per card about 3½ lbs. $2.20

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

Our shipping facilities are unequaled.

We invite correspondence.

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act.

One Card with Locks in a Cardboard Box.

POPULAR CHEWING GUM

Just the kinds all concessionaires are using. It is the best in the market for this class of trade.

No. N8307. Shure's Pepsin Chewing Gum, strictly high grade goods, made of pure chicle and pepsin in spearmint or peppermint flavor, 5 pieces in tissue and fancy wrapper in a package, 100 5c packages in box. Per box ..... .90

Special gum for cane or baby rack men

No. N8308. Our Special Chewing Gum. A good reliable make in popular peppermint flavor; packed 2 sticks in fancy lithographed wrapper without price label; packed 100 packages in a box. The sticks are full standard size, especially designed for cane rack and baby rack men. Per box..... .50

FORGET-ME-NOT-HIGH GRADE GUM

We give Free Premiums with this Gum

No. N8309. Our Forget-Me-Not Chewing Gum. In quality this is a strictly high grade gum that has no superior in the market at any price; made of strictly pure chicle in two flavors, wintergreen and peppermint, with best pepsin. The flavors are especially delicate and of a lasting quality. It is a grade of gum that any dealer can work up a large trade on and have no difficulty in retaining it. Handsomely put up in lithographed wrapper and package; 20 5c packages in a box. Per box..... .95

List of Free Premiums

Given with Forget-Ne-Not Chewing Gum

Some of the Items

Articles enumerated below are premiums we give free, 1 article with each box of gum. All the articles here listed are good, practical items of standard quality. We are giving this free as a special inducement to increase the volume of sale for our Forget-Me-Not Chewing Gum. Once this brand of gum is introduced in a locality, it will be one of your best sellers and profit makers. Take advantage of this free premium proposition while it lasts.

The articles are:

Gold plated jewel box.
Gold filled stone set scarf pin.
Whitestone set hat pin.
Gold filled cuff links.
Gold plated watch fob.
Two-blade pearl handle pocket knives.
Bent trimmer shears
Fountain pen.
Brass floroscope magnifier.
Rogers sugar shell.

Refreshment Counter Specialties

Orangeade

Fruit-O-Ade

Flavors & Colors

Crescent Orangeade Powder

No. N8300. The Crescent Orangeade Powder is fully ¼ stronger than any other powder offered. Each pound of this powder will make 45 gallons of richly colored, good tasting orangeade. One thing that we wish to say about this powder is, it gives the natural color of the orange, also taste, and it is pure, delicious and refreshing. It is colored with harmless coloring, fully guaranteed under the Pure Food and Drugs Act of June 30, 1906, under Serial No. 11768.. Directions on each package. It can be kept in any climate and does not lose its strength unless carelessly exposed to the air for a long time. For concessionaires following picnics, circuses, carnivals this is a small gold mine, as each pound will bring a net clear profit of $34.00; easily disposed of in one day. In packages, sealed.

Per pound 2.25
Per ½ pound..... 1.25
Per ¼ pound..... .70

Lemonade Powder

No. N8301. Lemonette Powder is a new substitute for lemons in making lemonade, and is very extensively used by concessionaires operating what is called "Juice Counters." The ingredients are all pure, healthful and make delicious lemonade. One pound will make 45 gallons. This substitute is manufactured under the Pure Food Act of June 30, 1906. Delicious lemonade is made a great deal cheaper and quicker with this preparation than with the ordinary lemons.

1 pound packages. Per package 2.25
½ pound packages. Per package..... 1.25

New Fruit-O-Ade Beverage

Fruit-O-Ade is a delicious refreshing pure drink, made from sugar and lemon product, pure oil extracted from fresh fruit, contains no harmful drugs, colored with certified food colors, directions how to use on each box(guaranteed pure under the Pure Food and Drugs Act Law. In sealed tin boxes sufficient for 25 drinks.

No. N8302. Cherry. Dozen..... 1.40
No. N8302. Sherbet. Dozen..... 1.40
No. N8302. Orange. Dozen..... 1.40

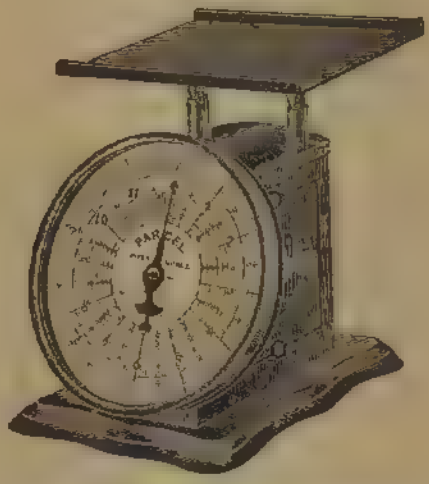
Pure Food Flavors and Colors

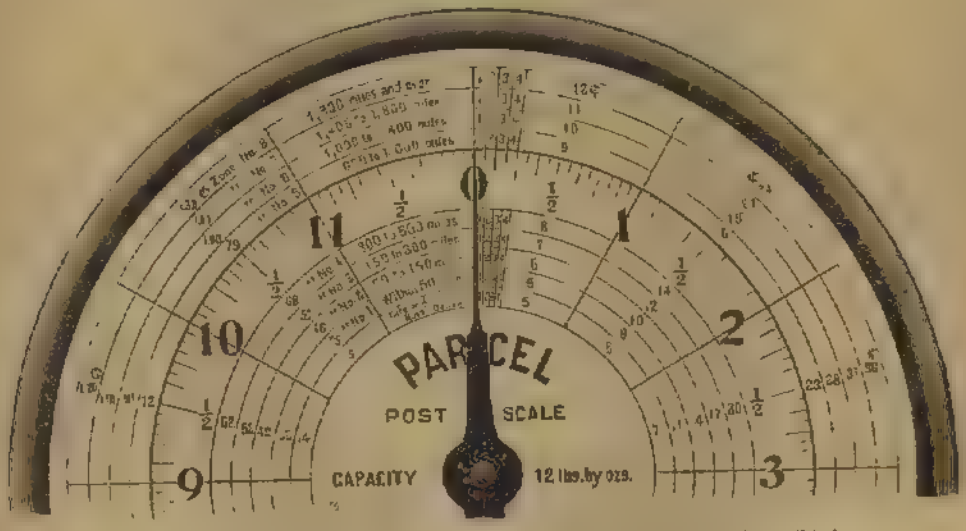
Cremeine Food Flavors and Colors can be had in almond, lemon, orange, pineapple, strawberry, vanille, peppermint, etc., in blue, brown, green, orange, pink, red and yellow. Does not contain alcohol, made in a heavy creamy form, put up in collapsible tubes, 4 to 6 drops of Cremeine equals to a teaspoonful of ordinary extracts or flavors, strong and rich. Each tube in box, one dozen in carton.

No. N8303. Flavor. Dozen..... 1.10
No. N8304. Colors. Dozen..... 1.10

PARCEL POST SCALE.

DELMAR.





Cut shows Zones of Mileage and Cost of Postage Marked on Dial

Finely Black Enameled Steel Base Case and Platform with Gilt and Red Striping, Slanting White Enameled Cardboard Dial Diameter 6 in. with Figures and Lines in Black and Red, Covered with Clear Glass Face in Nickel Plated Ring packed with Felt which acts as a Cushion to the Glass and makes the Space between the Glass and Dial Dust-proof. Blue Japanned Steel Indicator with Red Tip. Adjusting Screw enclosed in Rear of Case.

The Amount of Postage for each Pound and Additional to the different Zones of Mileage is Marked in Plain Black Figures, so that when an Article is placed on the Platform the Indicator will Point to the Exact Amount of Postage it will take to Mail it.

	Each
No. PP—DELMAR: CAPACITY 12 LBS. BY OUNCES. Size of Base 8x6½ in.; Size of Platform 6¼x5⅝ in.; Height over all 8 in. Weight each about 4 lbs	$3.70

One in a Cardboard Box.

COFFEE MILLS

VICTOR CANISTER

Canister Holds One Pound

	Per Dozen
No. 525—5x5x6¾ in., Varnished Dovetailed Box, Sunken Hopper, Tin Screw Top Opening, Top Adjusting Screw, Rapid Grinders, with Side Handle	$ 9.50 10.00

Weight Per Dozen 75 Pounds

One-half Dozen in a Box

NATIONAL BOX

	Per Dozen
No. 331—4¼x5x4¼ in., Varnished Dovetailed Box, Sunken Hopper, Slide Cover, Bronzed, Adjusting Nut on Top of Mill, with Side Handle	$13 00 12 00

Weight Per Dozen 70 Pounds

One-half Dozen in a Box

NATIONAL BOX

	Per Dozen
No. 431—5x5x4¾ in., Varnished Dovetailed Box, Sunken Hopper, Slide Cover, Fancy Iron Top, Bronzed, Adjusting Nut on Top of Mill, with Side Handle	$13.00 18.00

Weight Per Dozen 66 Pounds

One-half Dozen in a Box

COFFEE MILLS

REGAL CANISTER

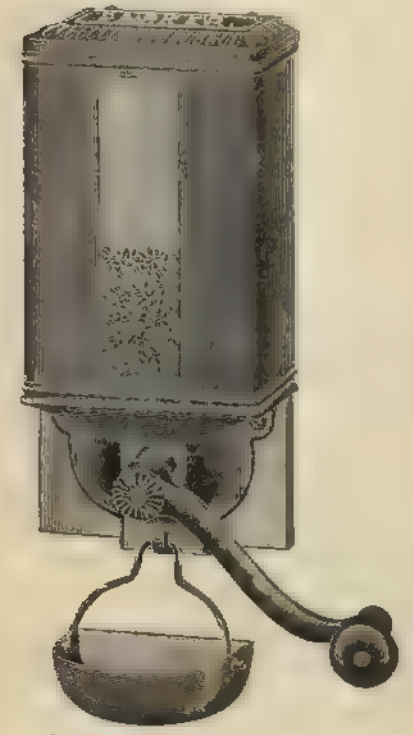
Canister Holds One Pound

Per Dozen

No. 41 Air Tight Tin Canister with Screw Top, Cast Iron Body, Chilled Iron Grinders, Detachable Cup, Black Enameled Finish, Gilt Decoration $7.00
9.00

Weight Per Dozen 44 Pounds

PARKER'S CANISTER



Canister Holds One Pound

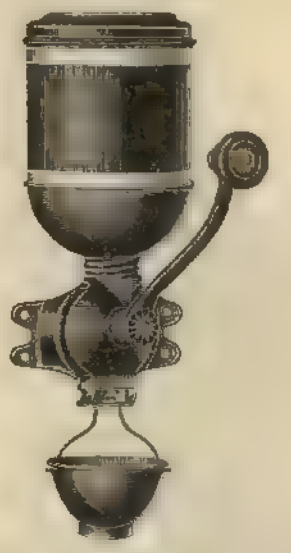
Per Dozen

No. 443—Black Enameled Tin Canister with Glass Front, Chilled Iron Grinders, Detachable Cup .....$ 8.75
10.50

Weight Per Dozen 45 Pounds

One-half Dozen in a Box

EAGLE CANISTER



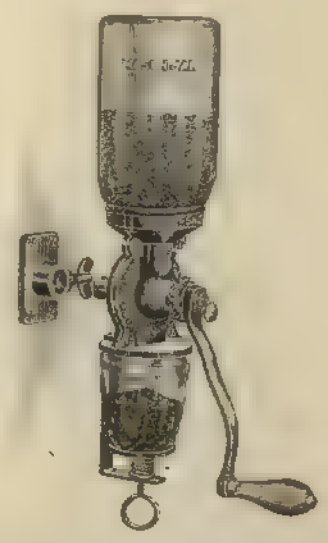
Per Dozen

No. 441 Air Tight Tin Canister, Cast Iron Body, Hard Chilled Iron Grinders and Shells, Detachable Cup, Black Enameled Finish.$8.25
9.50

Weight Per Dozen 45 Pounds

One-half Dozen in a Box

UNIVERSAL CANISTER



Per Dozen

No. 24—Glass Canister Holds One Pound and is Air Tight, Black Enameled Iron Body with Gilt Lettering, Chilled Iron Grinders, Patent Adjusting Device, Iron Wall Bracket with Thumb Screw, Glass Receiving Cup Easily Removed.....$18.00

In event of breakage in use, either Canister or Cup can be replaced, the canister by an ordinary mason jar, the cup by any jelly tumbler.

Weight Per Dozen 82 Pounds

One-half Dozen in a Box

2207

AMERICAN DOUBLE BARREL GUNS.

PARKER'S NEW HAMMERLESS.

BORED FOR NITRO POWDER.
Both Barrels Choke Bored

TITANIC or Fine Damascus Barrels; Fine Imported Walnut Oil Finished Stock; Silver Shield; Fine Checkering and Engraving; Skeleton Butt Plate; Rubber Capped Pistol Grip; Matted Rib; Case Hardened Frame, Finely Engraved; Blued Mountings, Top Lever.

	Each	E. ch
No. DH12—12 GAUGE; WITHOUT EJECTOR; 30 and 32 in. Barrels; Weight each 7 to 9 lbs.	$100.00	$135.00
‡No. DHE12—12 GAUGE; WITH AUTOMATIC EJECTOR; 30 in. Barrels. Weight each 7 to 9 lbs.	125.00	168.50
No. DH16—16 GAUGE; WITHOUT EJECTOR; 28 and 30 in. Barrels; Wgt. each 6 to 7½ lbs.	100.00	135.00

Fine Damascus Steel Barrels; Fine Figured American or Imported Walnut Oil Finished Stock; Checkered and Engraved Pistol Grip, Rubber Capped; Hard Rubber Butt Plate, Checkered; Case Hardened Frame, Nicely Engraved; Blued Mountings; Top Lever; Matted Rib

	Each
No. GH12—12 GAUGE; WITHOUT EJECTOR; 28 and 30 in. Barrels; Weight each 7 to 9 lbs.	$80.00 $108.00
No. GH16—16 GAUGE; WITHOUT EJECTOR; 28 and 30 in. Barrels, Weight each 6 to 7½ lbs.	80.00 108.00
No. GHE12—12 GAUGE; WITH AUTOMATIC EJECTOR, 28 to 30 in. Barrels; Wgt. ea. 6 to 7½ lbs.	105.00 142.00
No. GHE16—16 GAUGE; WITH AUTOMATIC EJECTOR, 28 to 30 in. Barrels; Wgt. ea. 6 to 7½ lbs.	105.00 142.00

Fine English Twist Barrels; Fine American Walnut Oil Finished Stock; Checkered and Engraved Pistol Grip, Rubber Capped; Hard Rubber Butt Plate, Checkered Matted Rib, Top Lever; Case Hardened Frame, Engraved; Blued Mountings.

	Each
No. PH12—12 GAUGE; WITHOUT EJECTOR; 28, 30 and 32 in. Barrels, Weight each 7 to 9 lbs.	$65.00 $87.50
No. PH16—16 GAUGE; WITHOUT EJECTOR; 28, 28 and 30 in. Barrels; Weight each 6 to 7½ lbs.	65.00 87.50

Vulcan Blued Steel Barrels; American Walnut Oil Finished Stock; Checkered Pistol Grip, Rubber Capped; Hard Rubber Butt Plate, Checkered; Matted Rib; Top Lever; Case Hardened Frame, Blued Mountings.

	Each
No. VH12—12 GAUGE; WITHOUT EJECTOR; 28, 30 and 32 in. Barrels; Weight each 7½ to 9 lbs.	$50.00 $67.50
No. VH16—16 GAUGE; WITHOUT EJECTOR; 28 and 30 in. Barrels; Weight each 6 to 7½ lbs.	50.00 67.50
No. VH20—20 GAUGE; WITHOUT EJECTOR; 26 and 28 in. Barrels; Weight each 5¾ to 7½ lbs.	50.00 67.50
No. VH28—28 GAUGE; WITHOUT EJECTOR; 26 and 28 in. Barrels; Weight each 5¾ to 6 lbs.	50.00 67.50
‡No. VHE12—12 GAUGE; WITH AUTOMATIC EJECTOR; 30 in. Barrels, Weight each 7½ to 9 lbs.	75.00 101.30
No. VHE16—16 GAUGE; WITH AUTOMATIC EJECTOR; OR, 28 in. Barrels; Wgt. each 5¾ to 6 lbs.	75.00 101.30

Imported Trojan Steel Barrels; Black Walnut Stock and Fore Arm; Checkered Full Pistol Grip; Hard Rubber Butt Plate, Matted Rib; Stock about 14 in. Long, Drop about 2¼ in., Lock and Action [illegible] Higher Grade Parker Guns; All Parts Drop Forged from Best Grade Steel; Case Hardened Frame; Blued Mountings.

No. TH12—12 GAUGE; WITHOUT EJECTOR; 28 and 30 in. Barrels; Weights 7½ to 8 lbs.	$45.50
No. TH16—16 GAUGE; WITHOUT EJECTOR; 28 in. Barrels; Weights 6¼ to 7 lbs.	45.50
No. TH20—20 GAUGE; WITHOUT EJECTOR; 28 in. Barrels; Weights 6¼ to 6¾ lbs.	45.50

Trojan Grade Guns cannot be Furnished in any other Specifications than Shown Above.
One in a Cardboard Box; Ten in a Case; Weight per Case 110 lbs

Pigeon Gun, 12 Gauge; Whitworth Fluid Pressed Steel Barrels; Finest Imported Circassian Walnut Stock; Gold Shield; Finest Checking and Engraving, combined with Finest Workmanship and Finish throughout; Skeleton Butt Plate; Straight or Pistol Grip; Weight each 7½ to 8½ lbs

	Each
‡No. AAH—WITHOUT EJECTOR	$400.00 $540.00
‡No. AAHE—WITH AUTOMATIC EJECTOR	425.00 574.00

A Certificate from Sir John Whitworth and Co., Guaranteeing the Barrels to be Genuine Whitworth Fluid Pressed Steel is furnished with every Gun of this grade

10, 12, 14, 16 and 20 Gauge; Finest Damascus Steel Barrels; Finest Imported Walnut Stock; Gold Shield; Finest Checking and Engraving, combined with Finest Workmanship and Finish throughout; Skeleton Butt Plate; Straight or Pistol Grip.

	Each
‡No. AH—WITHOUT EJECTOR	$300.00 $405.00
‡No. AHE—WITH AUTOMATIC EJECTOR	325.00 439.00

10, 12, 14, 16 and 20 Gauge; Extra Fine Damascus or Titanic Steel Barrels; Extra Fine Imported Stock; Gold Shield; Extra Fine Checking and Engraving; Skeleton Butt Plate; Straight or Pistol Grip.

	Each
‡No. BH—WITHOUT EJECTOR	$200.00 $270.00
‡No. BHE—WITH AUTOMATIC EJECTOR	225.00 304.00

10, 12, 14, 16 and 20 Gauge; Fine Bernard or Titanic Steel Barrels; Fine Imported Walnut Stock; Silver Shield; Fine Checking and Engraving; Skeleton Butt Plate; Straight or Pistol Grip.

	Each
‡No. CH—WITHOUT EJECTOR	$150.00 $202.50
‡No. CHE—WITH AUTOMATIC EJECTOR	175.00 236.50

Titanic or Fine Damascus Steel Barrels; Fine Imported Stock; Silver Shield; Fine Checking and Engraving; Skeleton Butt Plate; Straight or Pistol Grip; 30 and 32 in. Barrels.

	Each
‡No. DH10—10 Gauge; WITHOUT EJECTOR	$100.00 $135.00
‡No. DHE10—WITH AUTOMATIC EJECTOR	125.00 168.80

Fine Damascus Steel Barrels; Fine Figured American or Imported Stock; Checked and Engraved Pistol Grip; Hard Rubber Butt Plate

	Each
‡No. EH10—10 Gauge; WITHOUT EJECTOR	$85.00 $114.80
‡No. GH—14 and 16 Gauge; 28 and 30 in. Barrels	80.00 108.00

Fine English Twist Barrels; Fine American Stock; Checkered and Engraved Straight or Pistol Grip; Hard Rubber Butt Plate; 30 and 32 in. Barrels

	Each
‡No. PHP—10 Gauge	$70.00 $94.50
‡No. PH—14 and 16 Gauge, 28 and 30 in. Barrels	65.00 87.80

Weight Each, 10 Gauge 7¾ to 10½ lbs.; 12 Gauge 7 to 8 lbs.; 14, 16 and 20 Gauge 5½ to 7½ lbs.

‡8 Gauge, $35.00 extra above price of 10 Gauge, any Grade.

In ordering the above Guns please specify the kind of Barrel, Length and Gauge wanted.

STERLINGWORTH HAMMERLESS.

BORED FOR NITRO POWDER

BARRELS—Sterlingworth Compressed Fluid Steel Barrels.

STOCK—Walnut Stock and Patent Snap Fore-end, Nicely Checkered; Full Pistol Grip, Rubber Capped.

FRAME—Case hardened Frame and Top Lever.

MADE BY A. H. FOX GUN CO.

STANDARD GUN.

	Each
No. SFS12—12 GAUGE; 30 in. Barrels; FULL CHOKE BORED; Weights 7½ to 7¾ lbs.	$42.00
No. SFS20—20 GAUGE; 26 and 28 in. Barrels; FULL CHOKE BORED; Weights 5 to 5½ lbs.	42.00
No. SFSE12—12 GAUGE; 30 in. Barrels; FULL CHOKE BORED; AUTOMATIC EJECTOR; Weights 7½ to 7¾ lbs.	62.00

FIELD GUN.

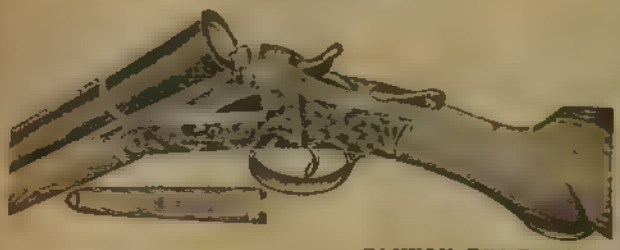
	Each
No. SFF12—12 GAUGE; 28 in. Barrels; RIGHT BARREL MODIFIED, LEFT BARREL FULL CHOKE Weight 7 lbs.	$42.00
No. SFFE12—12 GAUGE, 28 in. Barrels RIGHT BARREL MODIFIED, LEFT BARREL FULL CHOKE, AUTOMATIC EJECTOR; Weight 7 lbs.	62.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 130 lbs.

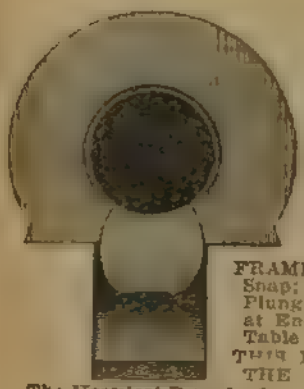
‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

SINGLE BARREL GUNS.

BREECH LOADING.



CANNON BREECH.



BARREL — Special Blued Steel Matted Barrel, Bored for Nitro Powder; Reinforced Breech and Lug Forged from One Solid Piece of Steel. Barrel is ⅝ in Thick at Breech, which makes it the Heaviest Gun at Breech Manufactured

STOCK—Oil Finished English Walnut Stock, Deeley & Edge Pattern Fore-end, Full Capped Pistol Grip, Checkered Rubber Butt Plate

FRAME — Blued Mountings; Top Snap; Rebounding Hammer; SOLID Plunger; Take-Down; Check Block at End Interlocks with the Water Table when the Gun is Opened, THUS RELIEVING ALL STRAIN ON THE FORE-END.

The Heaviest Breech of any Gun manufactured— ⅝ inch thick.

WITHOUT EJECTOR.

NICKEL PLATED FRAME.

	Each
No. 33 12—12 GAUGE, 30 and 32 in. Barrel; Weight each 6¾ lbs	$11.00
No. 33 16—16 GAUGE; 30 in. Barrel; Weight each 6½ lbs.	11.00

CASE HARDENED FRAME.

	Each
No. 33C 12—12 GAUGE; 30 and 32 in. Barrel, Weight each 6¾ lbs.	$11.00
No. 33C 16—16 GAUGE; 30 in. Barrel, Weight each 6½ lbs.	11.00

WITH AUTOMATIC EJECTOR

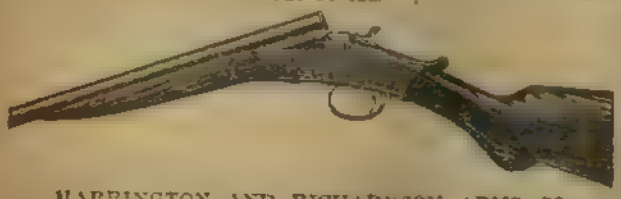
NICKEL PLATED FRAME.

	Each
No. 33K12—12 GAUGE, 30 and 32 in. Barrel; Weight each 6¾ lbs.	$12.00
No. 33K16—16 GAUGE; 30 in. Barrel, Weight each 6½ lbs.	12.00

CASE HARDENED FRAME.

	Each
No. 33KC 12—12 GAUGE, 30 and 32 in. Barrel; Weight each 6¾ lbs.	$12.00
No. 33KC 16—16 GAUGE; 30 in. Barrel, Weight each 6½ lbs.	12.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 96 lbs.



HARRINGTON AND RICHARDSON ARMS CO.

BARREL—Blued Steel.

STOCK—Varnished Walnut, Plain Half Pistol Grip Stock and Fore-end, with Rubber Butt Plate.

FRAME—Case Hardened Frame, Two Piece Take-Down Style, Top Snap, Spiral Springs Throughout, Rebounding Hammer.

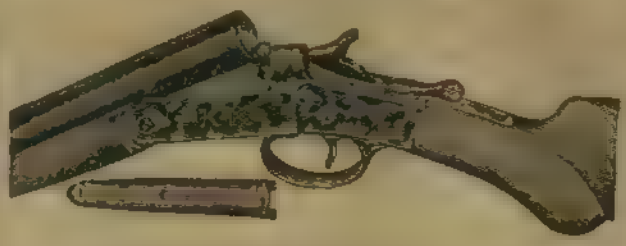
	Each
No. 1905 44—44 CALIBER, 26 in. Barrel; WITHOUT EJECTOR. Shoots 44XL and 44WCF Shot Cartridges Weight each about 4 lbs.	$8.00
No. 1905—28 GAUGE; 26 and 28 in. Barrel; WITHOUT EJECTOR, Choke Bored; Wgt. each about 4¾ lbs.	8.00
No. 1905E—28 GAUGE; 26 and 28 in. Barrel; AUTOMATIC EJECTOR, Choke Bored; Weight each about 4¾ lbs.	8.50

One in a Cardboard Box, Ten in a Case; Weight per Case about 65 lbs.

SINGLE BARREL GUNS.

BREECH LOADING.

BORED FOR NITRO POWDER.



"PIGEON GUN", MODEL 1913.

BARREL—Special Blued Steel Matted Barrel, Choke Bored; Heavy Reinforced Breech.

STOCK—Oil Finished Walnut Stock and Deeley & Edge Pattern Fore-end; Full Pistol Grip; Corrugated Rubber Butt Plate; Metal Fore-end Joint.

FRAME—Rebounding Hammer; Top Snap; SOLID Plunger; Take-Down; Blued Mountings.

WITHOUT EJECTOR

CASE HARDENED FRAME.

	Each
No. KK12—12 GAUGE; 30 and 32 in. Barrel	$8.00
No. KK16—16 GAUGE; 30 in. Barrel	8.00
No. KK20—20 GAUGE, 30 in. Barrel	8.00

NICKEL PLATED FRAME.

	Each
No. KKN12—12 GAUGE; 30 and 32 in. Barrel	$8.00
No. KKN16—16 GAUGE; 30 in. Barrel	8.00
No. KKN20—20 GAUGE, 30 in. Barrel	8.00

WITH AUTOMATIC EJECTOR

CASE HARDENED FRAME.

	Each
No. KKE12—12 GAUGE, 30 and 32 in. Barrel	$8.50
No. KKE16—16 GAUGE; 30 in. Barrel	8.50
No. KKE20—20 GAUGE; 30 in. Barrel	8.50

NICKEL PLATED FRAME.

	Each
No. KKNE12—12 GAUGE; 30 and 32 in. Barrel	$8.50
No. KKNE16—16 GAUGE; 30 in. Barrel	8.50
No. KKNE20—20 GAUGE; 30 in. Barrel	8.50

Weight of 12 Gauge about 6¾ lbs., 16 Gauge about 6½ lbs.; 20 Gauge about 6 lbs.

One in a Cardboard Box, Ten in a Case; Weight per Case about 90 lbs.

MATTED GUN RIBS.

THE C-G PATENTED ATTACHABLE.

MADE TO FIT 1897 MODEL WINCHESTER TAKE-DOWN SHOT GUNS.

Can be attached in a few minutes to Winchester Shot Gun by anyone and without the aid of Special Tools.

It is made of Special Tempered Steel Pressed into Shape and fits perfectly; Being Hollow it does not heat up like a Solid Rib and allows a Uniform Expansion of the Barrel. It also has the advantage of being very much Lighter, as it weighs only 3¾ ounces.

It gives a Perfectly Level Sighting Range, does away with the Light Glare and Heat Wave, Improves One's Shooting and adds greatly to the Appearance of a Winchester Gun

No. CG—Gun Rib, 28, 30 and 32 in. ..... Each, $7.00

A Tag Accompanies each Rib giving Full Instructions how to attach. One in a Wood Box.

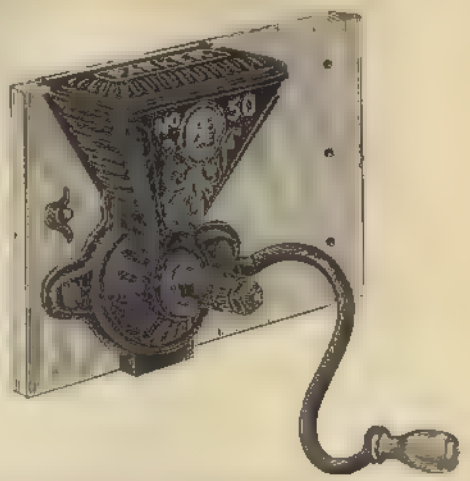
COFFEE MILLS

SIDE

Japanned Cast Iron Hopper, Oil Finished Board, ¾ in. Thick

No.	1330
Top of Hopper, Inches	3¾x1½
Depth of Hopper, Inches	2⅞
Size of Board, Inches	7⅞x5⅝
Weight Per Dozen, Lbs.	36
Per Dozen	$5.50
	6.00

One Dozen in a Box



Japanned Sheet Iron Hopper, Oil Finished Board, ¾ in. Thick

Nos.	50	60	70
Top of Hopper, Inches	4½x1⅞	4½x2⅛	5⅞x2¼
Depth of Hopper, Inches	3¼	3⅞	4
Size of Board, Inches	8¼x6	8⅝x7	10⅛x7¼
Weight Per Dozen, Lbs.	40	50	55
Per Dozen	$7.50	8 50	10 00
	7.00	8 40	10 50

Nos.	80	90
Top of Hopper, Inches	7x2¾	9½x3⅝
Depth of Hopper, Inches	¼	6⅝
Size of Board, Inches	12x9¼	14½x11
Weight Per Dozen, Lbs.	70	110
Per Dozen	$16.00	26.00
	16.50	24.00

One-half Dozen in a Box

ENTERPRISE

Cast Iron, Painted Black,

Red and Gold Striped

Hardened Cast Grinders

Will Pulverize

Per Dozen

No. 0—11½ in. High, Capacity of Hopper 4 Oz., will Grind 6 Oz. Per Minute, To Clamp on Table $18.00
30.00

Weight Per Dozen 90 Pounds
One Dozen in a Box

Per Dozen

No. 00—9 in. High, Capacity of Hopper 4 Oz., will Grind 6 Oz. Per Minute, To Screw on Wall $15.00
25.00

Weight Per Dozen 90 Pounds
One Dozen in a Box

CROWN

No 01

CROWN

Per Dozen

No. 01—11½ in. High, Capacity of Hopper 4 Oz., Will Grind 6 Oz. Per Minute, Cast Iron, Maroon Enameled and Ornamented, Patented Rapid Grinders, Easily Opened for Cleaning, will Pulverize, To Clamp on Table $18 00
27.00

Weight Per Dozen 90 Pounds
One-half Dozen in a Box

UNIVERSAL

Per Dozen

No. 0014—11¼ in. High, Cast Iron, Black Enameled, Handsomely Ornamented, Patent Adjusting Device, Grinds as Fine or Coarse as Wanted, to Clamp on Table. $11.00
15.00

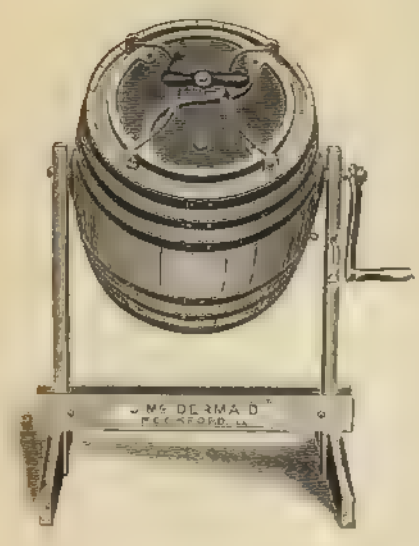
Weight Per Dozen 62 Pounds
One-half Dozen in a Box

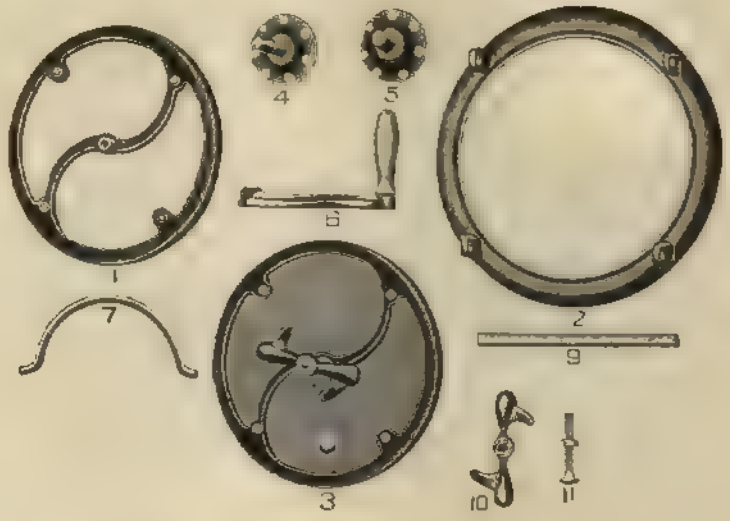
UNIVERSAL

No. 0014.

CHURNS

BELLE BARREL





White Oak, Seasond and Varnished

Painted and Cork Packed Cover, Glass Covered Sight Hole, Galvanized Iron Top Castings, Black Japanned Malleable Iron Cam Fastener, Bolted Oak Wood Frame

Nos.	0	1	2	3	4	5	For Power 5½	6	7	8
Capacity, Gallons	6	10	15	20	25	35	45	50	60	80
Churns Gallons, Cream.	1 to 3	1 to 5	1 to 7	2 to 10	2 to 12	3 to 17	5 to 22	5 to 25	6 to 30	7 to 37
Weight Each, Lbs.	27	33	38	48	71	77	110	120	125	135
Each	$8 00	9.00	10.00	11.00	14.00	16.00	22.00	26.00	30.00	35.00
	5 70	**6.50**	**7.30**	**8.00**	**11.00**	**12.50**	**16.00**	**20.00**	**25.00**	**30.00**

Note—We do not furnish frames for Churns over No. 5, unless specified in orders For convenience large churns are often hung between two upright posts instead of a portable frame

Extra Parts for Belle Barrel Churns

Churn Nos.		0	1	2	3	4	5
No. 1—Cover Frame	Each,	$0 40	45	50	55	60	65
No. 2—Churn Rim	Each,	80	90	1 00	1 00	1 20	1 20
No. 3—Cover Complete	Each,	1 00	1 15	1 25	1.45	1.75	2 00
No. 4—Crank Trunnion	Each	25	25	.25	25	30	30
No. 5—Short Trunnion	Each,	20	20	.20	20	.	.
No. 6—Crank	Each,	30	.30	40	40	50	50
No. 7—Bail	Each,	30	.30	40	40	50	50
No. 9—Cork Packing	Each,	50	.50	50	50	50	.50
No. 10—Cover Fastener	Each,	25	25	25	25	25	25
No. 11 –Cover Bolt	Each,	12	12	12	12	12	12

Note—When Ordering Parts, Always Give Number and Name of Part, as Well as Number of Churn

Frames—For Nos. 5½, 6, 7 and 8, Extra	$2 25
Roller Bearings, Extra	1.00

SHAFTS AND PULLEYS TO RUN CHURNS WITH POWER

	Each
12 in. Single Pulley	$1.50
14 in. Single Pulley	2.00
18 in. Single Pulley	2.50
12 in Double Pulley	3 00
14 in. Double Pulley	4.00
18 in Double Pulley	5 00

	Each
12 in. Pulley Shaft	$0 75
14 in. Pulley Shaft	1.00
18 in Pulley Shaft	1.25
12 in. Pulleys for Nos. 0, 1, 2 and 3 Churns	
14 in. Pulleys for Nos. 4, 5 and 6 Churns.	
18 in Pulleys for Nos 7, 8 and 9 Churns	

COFFEE MILLS

PARKER BOX

PARKER VICTOR

Holds One Pound of Coffee

Per Dozen

No. 841—Rapid Grinder; with Hinged Door and Metal Cup, Height of Box 8 Inches, Base 5x5 inches; Varnished Hardwood Box, Dovetailed, Rounded Corners, Bronze, Iron Top, Side Cover, Crank and Grip Handle, Sunken Hopper; Adjustable Hardwood Cast Iron Grinders; Weight per Dozen 90 lbs. **$16 00**

Half Dozen in a Case

PARKER NATIONAL

Varnished Hardwood Box, Dovetailed Corners; Bronzed and Lacquered Metal Top, Side Handle and Crank, Sunken Hopper with Slide Covers, Adjustable Hardened Cast Grinders, Top Adjustment Nut, Wood Drawer.

Per Dozen

No. 1430—Stamped Steel Lid and Hopper Cover; Height of Box 4½ inches, Base 5x4 inches, Hopper 3½ inches Diameter, Weight per Dozen 55 lbs. **$12 70**

Per Dozen

No. 431—Stamped Steel Lid; Cast Iron Hopper Cover, Height of Box 4¾ inches, Base 6x5 inches, Hopper 4½ inches Diameter; Weight per Dozen 66 lbs. **$13 25**

Half Dozen in a Case

PARKER'S NATIONAL

Varnished Hardwood Box, Dovetailed Corners, Bronze Metal Side Covers and Cast Iron Crank, Black Enamel Crank Knob and Drawer Pull, Sunken Iron Hopper, Adjustable Hardened Cast Iron Grinders, Top Adjustment Nut; Wood Drawer

With All Stamped Steel Top

Per Dozen

No. 1400—Height of Box 4½ inches, Base 5x3½ inches, Hopper 3 inches Diameter; Weight per Dozen 42 lbs. **$11 50**

Half Dozen in a Case

With Stamped Steel Lid and Cast Iron Hopper Cover

Nos.	401	402
Height of Box, Inches	4½	4¾
Size Base, Inches	5 and 4	6½x6
Diameter Hopper, In.	3⅜	3¾
Weight per Dozen, Lbs.	56	73
Per Dozen	$12 70	13 20

Half Dozen in a Case

With Wood Lid and Cast Iron Hopper Cover

Nos.	300	301	302
Height Box, Inches	4	4¼	4½
Size Base, Inches	4x3½	4½x3½	5½x3½
Diameter Hopper, In.	2¾	3¼	3⅝
Weight per Doz., Lbs.	50	56	68
Per Dozen	$11 00	11 50	12 10

Half Doz. in a Case

Varnished Hardwood Box with Dovetailed Corners, Japanned Iron Raised Hopper, Cast Iron Crank Handle, Nuts, Enameled Wood Knob, Wood Drawer

With Double Grinders

Two Adjustment Nuts on Top of Box

Per Dozen

No. 25—Height of Box 4¼ inches, Base 6½x6 inches, Size of Hoppers 5x2 inches, Weight per Dozen 76 lbs **$17 00**

Half Dozen in a Case

With Single Grinders

Two Adjustment Nuts on Top of Box

Nos.	105	170
Height of Box, Inches	3	4¾
Size of Base, Inches	5x5	6½x6
Size Hopper, Inches	4x1¾	4x1¾
Weight per Dozen, Lbs.	50	64
Per Dozen	$9 00	14 30

Half Dozen in a Case

With Single Grinder

With Top Adjustment Nut

Per Dozen

No. 118—Height of Box 3¾ Inch, a Base 5x5 inches, Size of Hopper 4½x1⅜ inches; Weight per Dozen 46 lbs. **$6 00**

Half Dozen in a Case

‡COMBINED PEANUT ROASTERS AND WARMERS.

HAND POWER.

No 25.

This Machine was Designed to suit those who desire a Roaster or Warmer, either of which can be run independently of the other.

With this Roaster you do not have to stop the Cylinder to Dump the contents when roasted; Simply turn the Cylinder Head Backward or hold it stationary while you turn the Cylinder Forward.

It is a Combined Roaster and Warmer. The Cylinder is fitted with a Fryer to test the Nuts while Roasting.

The Iron Head of the Cylinder is attached by a Screw Shaft. The Body of the Machine is made of Galvanized Iron, the Warmer of Copper. The Warmer is fitted with a Glass Top; The Roaster is supplied with Heat by Two Burners, the Warmer with One Burner.

Length over all 32½ in.; Depth of Body 21½ in., including the Gasoline Tank and Crank 30 in.; Height to Top of Warmer 36 in.; Height to Top of Roaster 36 in. Height to Top of Gasoline Tank 44½ in.

	Each
‡No. 26—For Gasoline; Capacity of Cylinder ½ bu.; Capacity of Warmer 1 bu.	$42.00
‡No 36—For Gas; Capacity of Cylinder ½ bu.; Capacity of Warmer 1 bu.	42.00

Weight each about 185 lbs.
Crated

HAND POWER
HALF BUSHEL SIZE.

Length 22 in., including Crank 23 in.; Height 48 in.; Width 19 in.

PECK SIZE.

2 in. Smaller each way.

Constructed of Planished Iron, Steel, Cast Iron and Galvanized Iron, put together in a Substantial Manner and will last for years; The Warmers have Glass Tops with Copper Frames, Glass Water Gauge and Tin Whistle Not Necessary to Stop Cylinder to Dump Contents when Roasted; By Simply Turning the Cylinder Head Backward or Holding it Stationary, Dumps Automatically; the Fryer will Test the Contents while the Cylinder is Revolving.

After Roasting, the Cylinder and Upper Parts of Body can be Removed and the Warmer Suspended in the Lower Part of the Body, bringing it near the Heat.

FOR CHARCOAL.	Each
‡No B—PECK SIZE; Tin Warmer; Weight each about 85 lbs.	$28.00
‡No C—½ BUSHEL SIZE; Tin Warmer; Weight each about 88 lbs.	31.00
‡No D—PECK SIZE; Copper Warmer; Weight each about 88 lbs	36.00
‡No. E—½ BUSHEL SIZE; Copper Warmer; Weight each about 90 lbs	36.00
ROASTER, WITHOUT WARMER	
‡No F—PECK SIZE; Rounded Top; Weight each about 50 lbs.	19.00
‡No. G—½ BUSHEL SIZE; Rounded Top; Weight each about 56 lbs.	22.00
FOR GASOLINE	
‡No. N—PECK SIZE; Tin Warmer; Weight each about 85 lbs.	40.00
‡No O—½ BUSHEL SIZE; Tin Warmer; Weight each about 90 lbs	45.00
‡No P—PECK SIZE; Copper Warmer; Weight each about 88 lbs	48.00
‡No. Q—½ BUSHEL SIZE; Copper Warmer; Weight each about 93 lbs.	52.50
ROASTER, WITHOUT WARMER	
‡No R—PECK SIZE; Rounded Top; Weight each about 48 lbs.	$30.00
‡No S—½ BUSHEL SIZE; Rounded Top; Weight each about 50 lbs.	32.00

Copper Warmers are Cheapest in the End, as many Waters Contain Minerals that soon eat holes in tin.

One in a Crate, Knocked Down.

‡PEANUT ROASTERS.

SPRING POWER

Length over all 42 in.; Width 27 in.; Height to Top of Tank 60 in.

WAGON—Steel Springs, Wheels and Axles; 28 in. Wheels, with Steel Spokes and Tires.

ROASTER—Constructed of Steel, Cast Iron, Galvanized Iron, Copper and Glass. Machine operated by Springs and Gear Wheels; One Winding should complete a Roasting, but Rewinding does not affect the operation of the Machine; the Speed of the motor is also regulated without stopping.

THE WARMER—Made of Copper, and is Heated by Hot Water and Steam, Leading to the Burners under Peanut Cylinder.

The Nuts when Roasted are Dumped Directly from the Cylinder into the Case without Stopping or Removing the Cylinder, and by Large Scoop Furnished are conveyed to the Warmer convenient for Sacking and Sale.

CAPACITY—Cylinder Roasts 10 Quarts per Hour; Case Holds 1 Bushel and Warmer ½ Bushel Nuts.

	Each
‡No 40—For Gasoline	$142.00
‡No 41—For Gas	142.00

Weight Each about 250 lbs
Cart Knocked Down and Wrapped; Case Knocked Down and Crated.

Cast Iron Fuel and Base; Length 28 in.; Width 20 in.; Body Galvanized Iron; Fitted with Four Burners when used for Gasoline; Capacity 8 Quarts; Will Burn about Four Hours; When Gas is used, fitted with One Long Pipe Burner extending Entire Length; Cast Iron Pulley, Diameter 20 in. 3 in Face to Drive Shaft with Bevel Cog Gear to Run Cylinder; Nuts Feed in on Top and Discharge at Bottom; Capacity of Cylinder 2 Bushels in Nut in about 45 Minutes, Loaded and Unloaded with out Stopping.

Length over all 41 in.; Width 22 in.; Height, not including Cylinder or Tank, 39 in.

	Each
‡No 106—For Wood and Gasoline. Weight each about 250 lbs	$113.00
‡No 101—For Hand and Gas. Weight each about 250 lbs	113.00
‡No 107—For Power and Gasoline. Wgt each about 323 lbs	133.00
‡No 103—For Power and Gas; Weight each about 323 lbs	136.00

One in a Crate.

Length over all 29 in.; Width 15½ in.; Weight 28 lbs; Height to Top of Tank 41 in.

Made Entirely of Iron, except Frame for Glass Top is of Wood.

Machine Operated by Springs and Gear Wheels; One Winding Should Complete a Roasting, but Rewinding does not affect the Operation of the Machine; The Speed of the Motor is also Regulated without Stopping; Made to set on Counter, Box or other Convenient Place.

Roasted Nuts are kept Hot by Dry Heat from the Burners; Roasted Nuts are Dumped on the Opposite Side without Stopping or Removing Cylinder.

SPRING POWER; To Stand on Counter, Table, etc. Capacity of Cylinder 10 Quarts; Capacity of Warmer 20 Quarts.

	Each
‡No 42—For Gasoline; Weight each about 150 lbs.	$80.00
‡No. 43—For Gas; Weight each about 150 lbs.	80.00

One in a Crate, Knocked Down.

The most Attractive and Serviceable ever invented; The Nuts on Top are heated first; Ask the Vender and he will tell you that 99 per cent of his customers want them hot; If they pick a nut from the top and find it is not hot they doubt if there are any in the machine any better; Hot Peanuts always bring Ready Sale; For Refreshing Bread, Crackers and Coffee, it is worth many times the price.

The Stand is Planished Iron, and the Warmer of the Best Quality of Tin or Copper. It has a much improved Glass Top. Will last for years. The Water Reservoir holds Three Gallons, and is heated by Gasoline or Gas. Instead of Direct Heat, Steam keeps the Contents Warm.

The Warmer will hold Three Pecks of Nuts. It consists principally of Water and One Quart of Gasoline or Gas.

Dimensions 14x17 in. including the handles and gasoline pipe; 24 in. High and 49 in. to Top of Gasoline Tank; Weight each about 40 lbs.

	Each
‡No 30—Tin Warmer; For Gasoline	$27.00
‡No 31—Copper Warmer; For Gasoline	31.50
‡No 32—Tin Warmer; For Gas	24.00
‡No 33—Copper Warmer; For Gas	28.50

Copper Warmers are Preferable. Many Waters contain Minerals that soon eat holes in tin.

One in a Crate.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

SAND SCREENS.

UNION, CLINCHED.

FOR BRICKLAYERS, PLASTERERS, ROOFERS, ETC.

Natural Finish Hardwood Frame, Enameled Wire Surface; 10 Flat Steel Enameled Braces. Outside Measurements: Length 72 in.; Width 28 in. Depth 5 in.; Depth to Wire Surface 4¼ in.; Size Wire Surface 45x17 in.

The Regular Size Sand Screen used for Brickwork and Plastering is 4 Mesh; for Fine Sand 5 Mesh, and for Gravel 3 Mesh.

Nos.	13	14	15	16
Mesh to inch	3	4	5	6
Wire Gauge	9	10	12	13
Wgt each about, lbs.	27	28	29	30
Each	$5.10	5.10	5.10	5.10

FLOUR SIFTERS.

Capacity 3 Pints; All Joints Double Seamed; Round Tin Handle with Brace, Soldered; Beaded Body, Removable Wire Bottom; 12 Gauge Removable Wire Scraper with Ebonized Wood Knob.

SIMMONS STERLING®, ROTARY.

IX Tin; Same Pattern as Hunter's. Diameter 5 in.; Depth 6¼ in.; Weight per dozen about 14 lbs.

Per Dozen

No. SC—COPPER PLATED $4.00

No. SN—NICKEL PLATED 4.00

One Dozen in a Fibre Carton.

Capacity 3 Pints; All Joints Double Seamed; Round Tin Handle with Brace, Soldered, Beaded Body, Removable Wire Bottom, 12 Gauge Removable Wire Scraper with Ebonized Wood Knob.

Per Dozen

No. R—ROYAL®, ROTARY, IC Tin; Diameter 5 in. Depth 6 in.; Weight per dozen about 14 lbs. $2.20

One Dozen in a Fibre Case.

SHAKER; IC Tin; Capacity 3 Pints. All Joints Double Seamed, Diameter 5 in.; Depth 6¼ in.; Wood Handle with Steel Braces, Soldered to Body; Stationary Wire Bottom Seamed to Rim; Double Beaded Body; 8 Gauge Removable Wire Scraper.

Per Dozen

No. L—Weight per dozen about 14 lbs. $4.00

One Dozen in a Fibre Case.

[illegible] 3 Pints; IX Tin Body, Nickel Plated, All Joints Double Seamed; Rosewood Finish Wood Handle, securely screwed to [illegible] Wire Bottom; [illegible] Removable Wire Scraper with Rosewood Finish Wood Knob.

No. PN—PRIZE: Diameter 5 in.; Depth 6 in.; Weight per dozen about 14 lbs. $4.00

One Dozen in a Case.

FLOUR SIFTERS.

Rotary; IC Tin; Capacity 3 Pints; All Joints Double Seamed; Round Tin Handle with Brace and Removable Cap on End, Soldered; Double Beaded Body; Stationary Wire Bottom, Soldered; 10 Gauge Removable Wire Scraper with Ebonized Wood Knob; Diameter 5 in.; Depth 6¼ in.

Per Dozen

No. 1H—GENUINE HUNTER'S Weight per dozen about 13 lbs. $2.60

No. 1H.

No. 1—HUNTER'S PATTERN; Weight per dozen about 10 lbs. 1.60

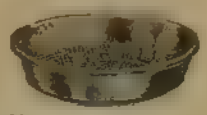
One Dozen in a Fibre Case.

GEM. IX Tin; Capacity 3 Pints; All Joints Double Seamed; Flat Steel Handle, Tinned and Riveted. Stationary Wire Bottom Seamed to Rim; 8 Gauge Removable Wire Scraper with Ebonized Knob; Diameter 6 in. Depth 4 in.

Per Dozen

No. G—Weight per dozen about 8 lbs. $3.30

Nested One Dozen in a Carton; Twelve Dozen in a Crate.



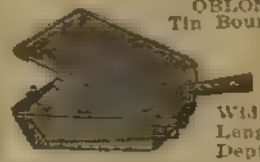
FLOUR SIEVE AND FRUIT WASHER.

IC Tin, Rolled Top; Perforated IC Tin Bottom; 7 Meshes to an inch.

Nos.	5	10
Diameter, inches	10	12
Depth, inches	2¼	2¼
Weight per dozen about, lbs.	5	6½
Per dozen	$1.40	2.00

One Dozen in a Package.

CORN POPPERS.



OBLONG; Body Wire, 8 Mesh to inch; Tin Bound Edges; 12 Gauge Brace Wires and Catch, 18 in. Wood Handle, Red Stained.

Nos.	1	2	3
Capacity, quarts	1	2	4
Width, inches	5	6½	9¼
Length, inches	7	9½	15½
Depth, inches	2¼	3	3½
Dozen in a Case	3 & 6	3	2
Weight per dozen about, lbs.	5	8	14
Per dozen	$1.80	3.30	7.50

DELPHOS.

Made of 28 Gauge Cold Rolled Sheet Steel, Lacquered; Folded Ends, Rimmed Edges. Removable Hollow Steel Handle, with Double Seamed Cold Plate at End, fastened to Body by means of a Threaded Bolt and Nut; Cold Plate at End of Handle will not allow it to become hot.

Sheet Steel Sliding Cover, with ⅜ in. Perforations at End, and Perforated Sunken Butter Drainer in Center. By means of End Perforations all unpopped kernels can be sifted out without opening the Cover.

Handle fitted with 10 Gauge Bright Steel Wire Rod extending through center and hooked to end of Cover, which enables the user to slide Cover back and forth without burning the fingers.

Size of Pan 9x1x3⅛ in.; Length of Handles 19½ in.

Per Dozen

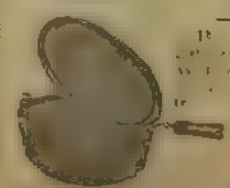
No. 20D—DELPHOS; Capacity 4 Quarts; Weight per dozen about 25 lbs. $3.00

One Dozen in a Case Knocked Down and Nested.

Body Wire 8 Mesh to in.; Tin Bound Edges, 15 Gauge Brace Wires, Center made of 4 Mesh to in. Wire, to sift unpopped kernels; 18 in. Wood Handle, Red Stained; Dimensions of each Popper, Width 5 in.; Length 6¾ in.; Depth 2¾ in.

No. 3—REVERSIBLE; CAPACITY 3 QUARTS; Weight per dozen about [illegible] lbs. ..... Per Dozen, $3.50

Packed Loose.



[illegible] Wire, 8 Mesh to in., Tin Bound [illegible] IC Tin Cover; 12 Gauge Brace [illegible] Catch; 20 in. Wood Handle, [illegible] ned; Diameter 6 in.; Depth 2¾ [illegible]

Per Dozen

No. 4—ROUND; CAPACITY 1 QUART; Weight per dozen loose about 5½ lbs. $2.00

Six Dozen in a Case.

WATCHES.

Cuts Two-thirds Size.

PENNANT.

Each

No. 30—TRIPLE NICKEL PLATED CASE; Stem Wind and Set.....$1.60

No. 32—OXIDIZED CASE; Stem Wind and Set 1.70

Wheels Cut from Solid Brass; Pinions, Shafts and Arbors, all of Hardened Steel; The Case is made of Galvanized Brass Dials Mounted on Brass Plates, which Prevents Oil on the Movement coming through on the Dial; DIALS NOT PRINTED BUT ENGRAVED; Heavy Beveled Glass Crystals.

Weight Each about 3 oz.

PENNANT JUNIOR.

No. 34—Each $2.50

Size 12 Special Thin Pattern, Stem Wind, Pendant Set, Snap Back, Antique Bow and Crown; Wheels Cut from Solid Brass, Pinions, Shafts and Arbors Finest English Watch Steel, Damaskeened Movement, Brass Case, Heavily Nickel Plated; Silver Metal Dial, with Roman Figures; Heavy Beveled Glass Crystals.

Weight Each about 2 oz.

PENNANT.

Each

No. 37—OXIDIZED CASE, Complete with Nickel Plated Watch.....$1.90

No. 38—PLAIN BURNISHED BRASS CASE; Complete with Burnished Brass Watch 1.90

Brass and Oxidized Cases, ¾ in. High, 2⅛ in. Wide, ⅝ in. Deep, containing One Pennant Watch, Plain Gilt Movement, Stem Wind and Stem Set.

Weight Each about 5 oz.

One in a Cardboard Box; Twelve in a Carton.

WATCHES.

Cuts Two-thirds Size.

SWISS-ANGLO

No. 35—PLAIN NICKEL CASE, Swiss Movement; Stem Wind and Set .....Each, $2.00

THE SPECIAL FEATURES OF No. 35 WATCH ARE.

The Antique Pendant and Crown which add greatly to its appearance.

The Patent Stem Wind which overcomes the Difficulties formerly experienced in Watches of this class.

Quick Beat—A Marked Improvement in Running Qualities.

Improved Escape Wheel with Seventeen Teeth.

Split Center Shaft in Cannon Pinion which can be removed without taking the Movement apart.

Patented Regulating Device, Positively Preventing the Hair Spring from Catching or being Misplaced.

All Pinion Bearings Hardened Steel.

Each Watch Packed in Cloth Bag and in Hinged Strawboard Box Covered with Heavy Enamel Paper; Twelve in a Carton. Weight Each about 2 oz.

(R. H. Ingersoll & Bro.)

JUNIOR

Stem Wind and Set.

SPECIAL THIN PATTERN; Plain Gilt Movement. Each

No. 19—PLAIN NICKEL CASE. $2.70

No. 20—PLAIN GILT CASE..... 2.80

No. 21—PLAIN OXIDIZED CASE 2.80

(R. H. Ingersoll & Bro.)

YANKEE.

Stem Wind and Set. Each

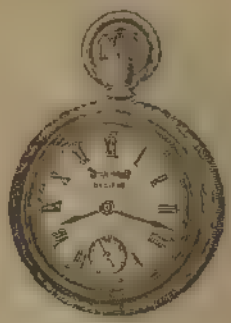
No. 1—PLAIN NICKEL CASE; Plain Gilt Movement. $1.50

No. 2—PLAIN OXIDIZED CASE Plain Gilt Movement..... 1.60

One in a Cardboard Box; Twelve in a Carton.

WATCHES.

(R. H. Ingersoll & Bro.)



ECLIPSE.

Stem Wind and Set.

New Thin Model.

Each

No. 3—PLAIN NICKEL CASE; Plain Gilt Movement $2.10

No. 4—PLAIN OXIDIZED CASE Plain Gilt Movement 2.30

One in a Cardboard Box; Twelve in a Carton

Cut Two-thirds Size

MIDGET.

Stem Wind and Set

Each

No. 10—PLAIN NICKEL CASE. $2.70

No. 11—PLAIN GILT CASE 2.80

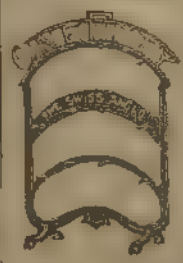
One in a Satin Lined Cardboard Box.

Twelve in a Carton. Weight Each about 2 oz.

Cut One-half Size.

WATCH DISPLAY STANDS.

SWISS ANGLO.



Cast Iron Display Stand, Japanned Finish; 14⅝ in. High, 9¾ in. Wide. Name of Watch and Retail Selling Price in Raised Bronze Letters; Arranged for Displaying One Dozen No. 35 Swiss-Anglo Watches.

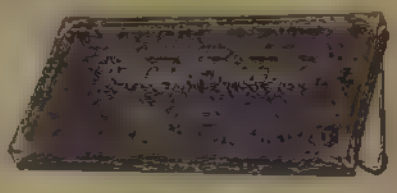
Each

No. 36—Weight each about 3 lbs....$2.00

Packed Loose.

WATCH SHOW CASES.

Sold only with an order of One Dozen or more Pennant Watches, One Kind or Assorted.



WITHOUT WATCHES.

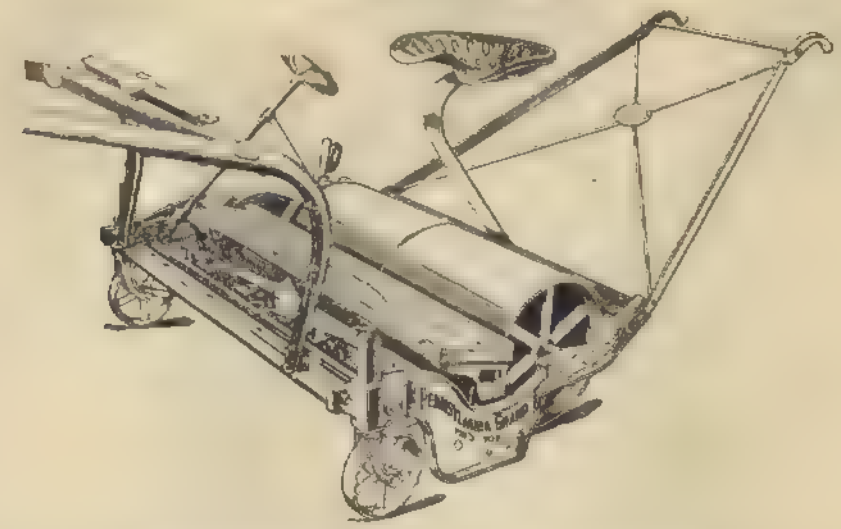
7⅛ in. High, 15 in. Long, 7⅝ in. Wide; Plain Glass Front, Nickel Plated Metal Corners; Lined with Green Plush and arranged for holding One Dozen Assorted Watches; Open from Back.

No. 34—Show Case; WITHOUT WATCHES .....Each, $2.50

One in a Cardboard Box; Weight Each about 4 lbs.

HORSE LAWN MOWERS

PENNSYLVANIA GRAND

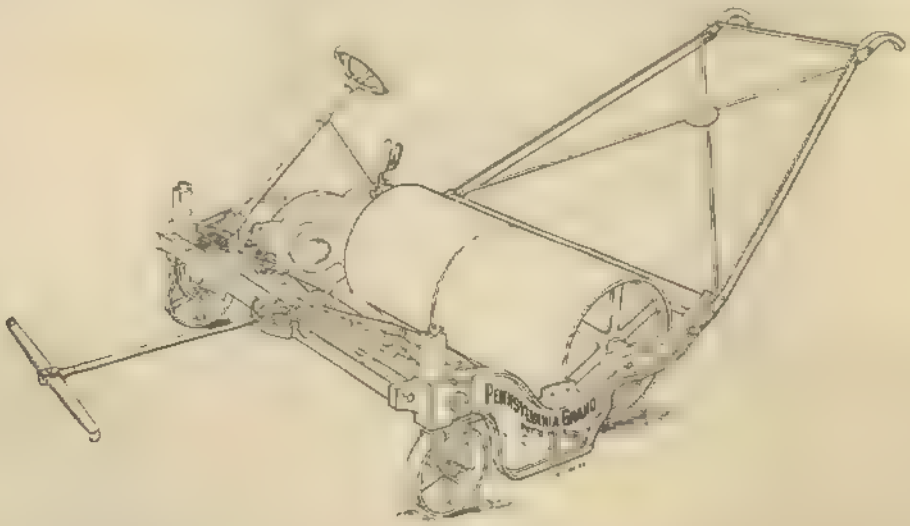


Complete with Seat, Shaft, Etc., as Illustrated Above

Crucible Tool Steel Knives, Hardened and Tempered in Oil, 7¼ in. Diameter Open Cylinder, 15 in. Diameter Rollers, Self-Sharpening Stationary Crucible Tool Steel Knife with Upturned Edge.

30 in. Cut	Each	38 in. Cut	Each
*No. 430—4 Knives, Weight Each 635 Lbs.	$120.00	*No. 438—4 Knives, Weight Each 720 Lbs.	$150.00
*No. 630—6 Knives, Weight Each 645 Lbs.	132.50	*No. 638—6 Knives, Weight Each 760 Lbs.	162.50

The wheel at the right of the driver's seat regulates the height of cut from ¾ to 2¾ in. The operator, without leaving his seat, can instantly change from low to high cut or any intermediate one. All wear of either revolving or stationary knives is taken up by a pair of set screws on the top of the cylinder journal boxes, allowing the cylinder to drop or the stationary knife to be rigidly located and remains fixed in place. The cylinder journals run in phosphor bronze boxes, and these are split, so that all wear can be taken up by a set screw.



With Handles and Draft Irons Only, Otherwise Same Description as Above

Fitted in this manner the mower can be easily managed on a lawn broken up with trees and shrubbery or on a small place where it is not essential for the driver to ride.

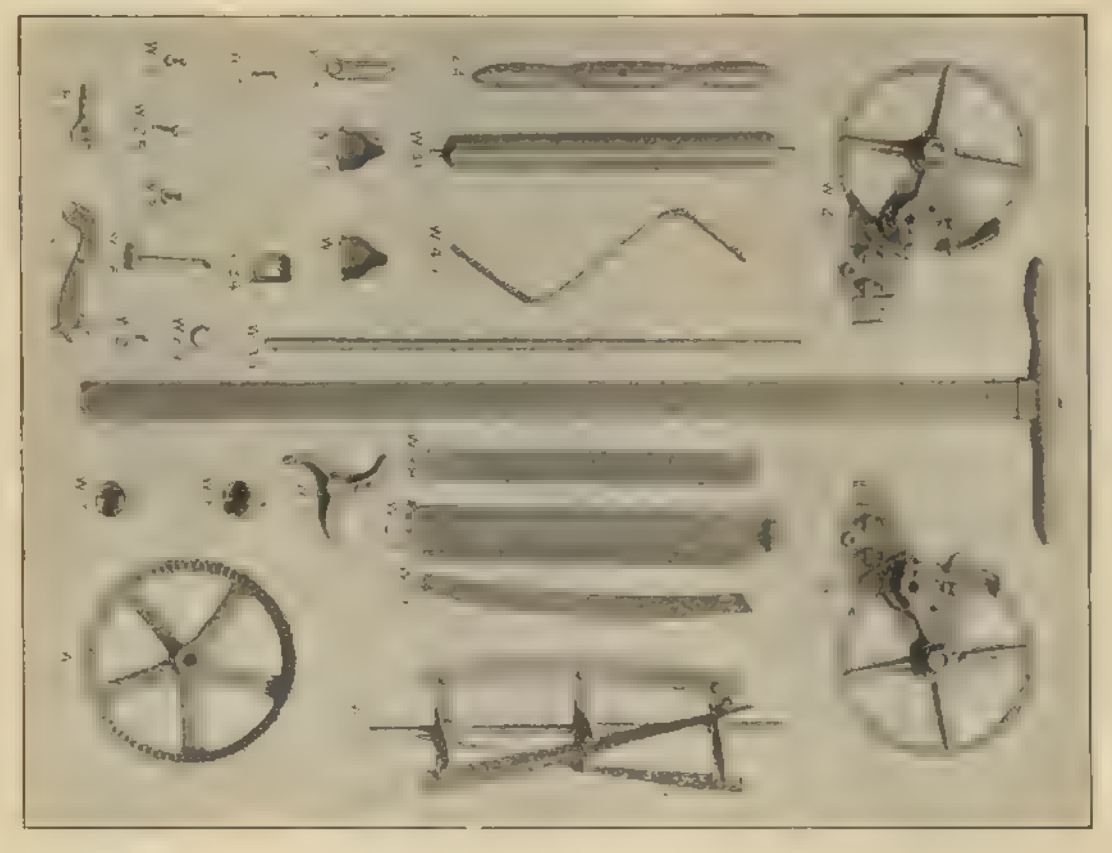
30 in. Cut	Each	38 in. Cut	Each
*No. 0430—4 Knives, Weight Each 595 Lbs.	$100.00	*No. 0438—4 Knives, Weight Each 675 Lbs.	$130.00
*No. 0630—6 Knives, Weight Each 605 Lbs.	112.50	*No. 0638—6 Knives, Weight Each 705 Lbs.	142.50

*Note—Not Carried in Stock, but Shipped Direct from Factory

HUEY & PHILP HARDWARE COMPANY.

LAWN MOWER PARTS

BEN HUR, PLAIN BEARING



Three Knives, 12, 14 and 16 in.

		Each
No. W1	—Drive Wheel ..	$1 25
No. W2	—R. H. Side Plate	1 25
No. W3	—L. H. Side Plate.	1 25
No. W6	—R. H. Pinion and Clutch.	35
No. W7	—L. H. Pinion and Clutch	35
No. W10	—Cylinder Head	.[illegible]
No. W11R	—R. H. Pinion Cover	25
No. W11L	—L. H. Pinion Cover .	.25
No. W13	—Roller Hanger	15
No. W22	—R. H. Box..	15
No. W23	—L. H. Box.	15
No. X15	—Wrench	15
No. B5	—Wrench for Set Screw and Cone.	15
No. R34	—Handle Socket	25
No. A23	—Handle Saddle	15
No. W26	—Bolt and Pin for Handle.	15
No. W20	—Cast Washer .	.05
No. W21	Set Screw	.05
No. W25	—Bolt for Cutter Bar	05
No. W27	—Screw to Adjust Cutter Bar	05
No. W31	—Screw for Pinion Cover.	05
No. W30	—Bolt for Roller Hanger	05
	Bolt for Handle Hounds ..	05
	Ratchet Pin for Nos. W6 and W7....	05

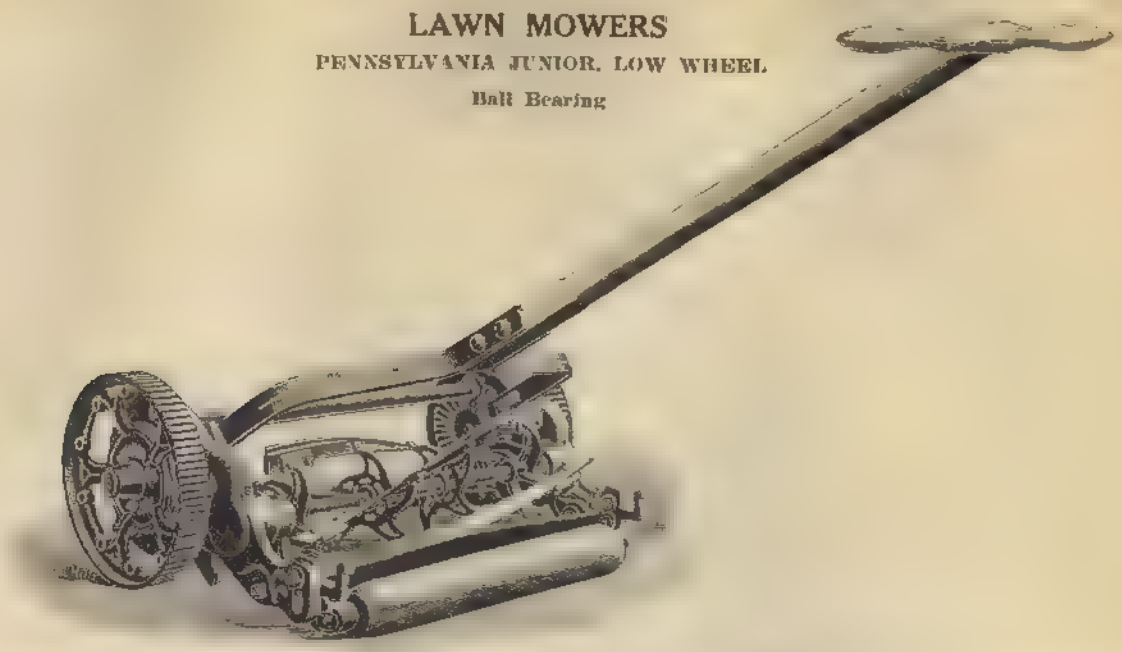
				Each
No. 241	—Handle Grip .			$0 25
No. W35	—Cylinder Complete—			
	Inches	12	14	16
	Each .	$2 00	2 50	3 00
No. W36	—Cylinder Knives—			
	Inches .	12	14	16
	Each ..	$0 40	45	50
No. W37	—Cutter Bar, Complete—			
	Inches	12	14	16
	Each	$1 20	1 40	1.60
No. W38	—Steel Blade for Cutter Bar—			
	Inches	12	14	16
	Each	$0 60	.70	.80
No. W39	—⅝ in. Steel Shaft—			
	Inches	12	14	16
	Each	$0.40	50	.60
No. W40	—Handle Hounds—			
	Inches	12	14	16
	Each	$0.25	.30	.35
No. W41	—Wood Roller—			
	Inches	12	14	16
	Each	$0.45	.50	.55

Note—When Ordering, Always Give Number with Description of Part also Width of Cut and Name of Machine. Also Give Year Machine was Manufactured as it Appears on Cutter Bar

LAWN MOWERS

PENNSYLVANIA JUNIOR, LOW WHEEL

Ball Bearing



8 in. Drive Wheels, Five Knives, 5½ in. Open Cylinder, Double Train of Gears

Crucible Tool Steel Blades and Stationary Knife, Hardened and Tempered in Oil. The Stationary Knife, of the Raised Edge Pattern, is of Such Construction as to Make it Self Sharpening until Entirely Worn Out. Ball Bearing Cylinder Journals.

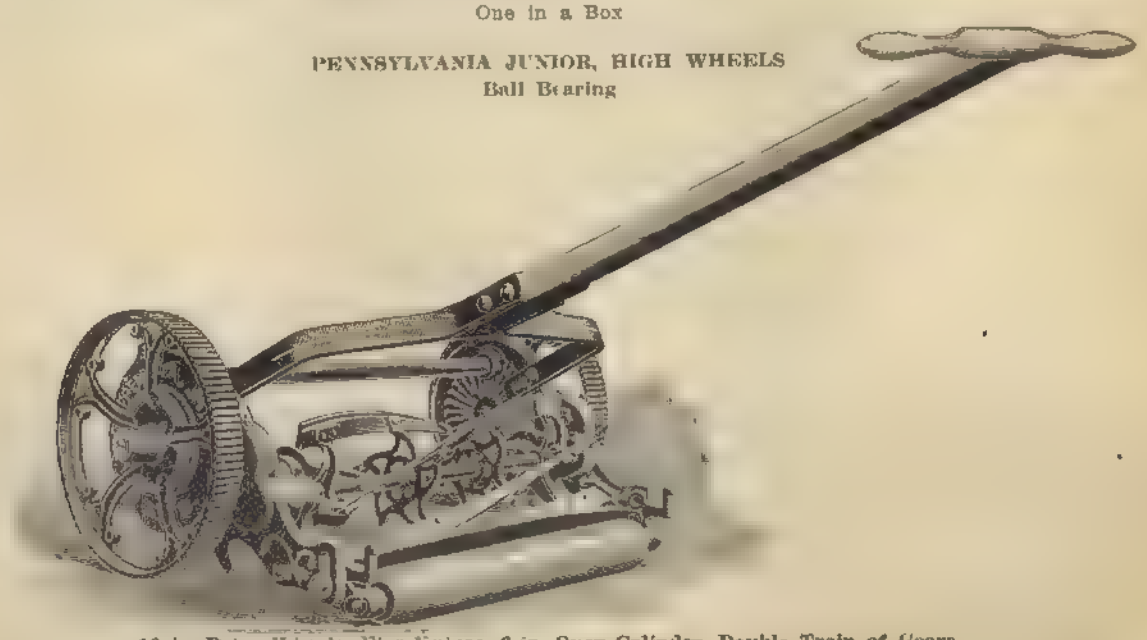
Width of Cut, Inches	**12**	**14**	**16**
Weight Each Boxed, Lbs	**59**	**62**	**65**
Each	**$15.00**	**17.00**	**19.00**
	.15.00	**17.00**	**19.00**

Because of the great length of wheel base, the "Pennsylvania" with its train of gears runs more easily and steadier than a mower with the internal gear. If the driving wheels of the "Pennsylvania" should happen to drop into a rut, before the knives reach the rut, the wheels are out again and the grass is cut evenly. The extra long wheel base permits the wheels and roller to span the rut.

One in a Box

PENNSYLVANIA JUNIOR, HIGH WHEELS

Ball Bearing



10 in. Drive Wheels, Five Knives, 6 in. Open Cylinder, Double Train of Gears

This is the Same as Pennsylvania Junior Shown Above, but has High Wheel and is Heavier

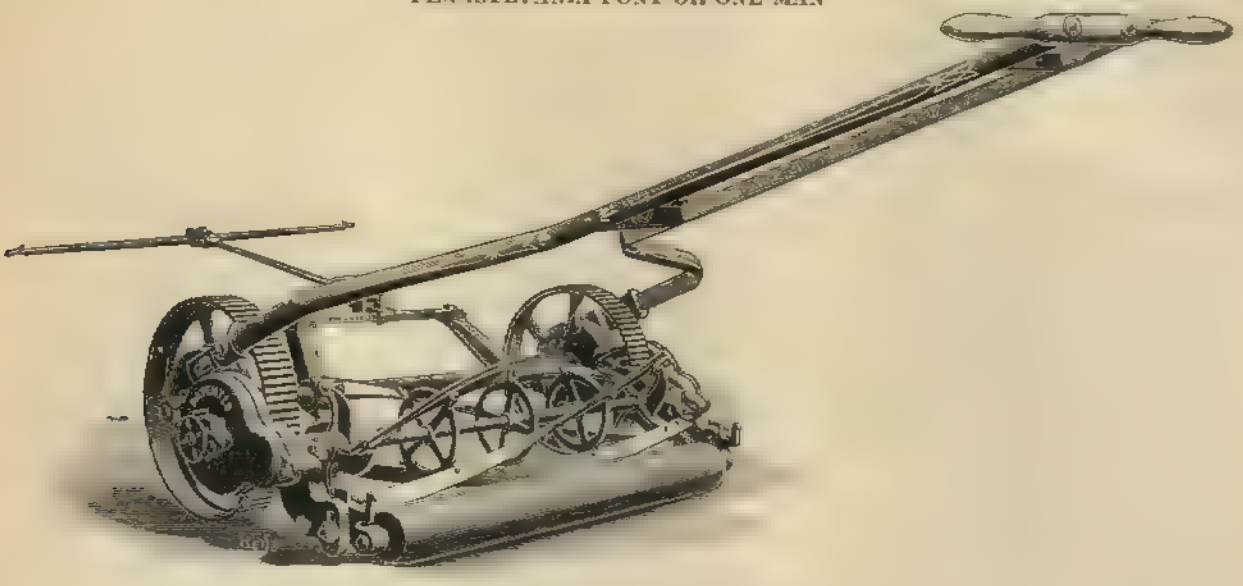
Width of Cut, Inches	**15**	**17**
Weight Each Boxed, Lbs	**71**	**74**
Each	**$25 00**	**28 00**
	25 00	**28 00**

One in a Box

HUEY & PHILP HARDWARE COMPANY.

LAWN MOWERS

PENNSYLVANIA PONY OR ONE MAN



11 in. Drive Wheels, Six Knives

	Each
*Pennsylvania Pony 25 in Cut, Crucible Tool Steel Knives Hardened and Tempered in Oil, Enos Yielding Up turned Lower Knife, Double Train of Gears, Extra Wide Blades and Large Cylinder, Fitting It for Use in High Grass	$60.00
	85 00

Especially useful on large lawns where the surface is broken by walks and shrubbery, or is too hilly for a regular horse mower Can be handled by two men where a horse is not available.

Weight Each 160 Pounds

*Note—Not Carried in Stock, but Shipped Direct from Factory

PENNSYLVANIA MOWER HAS STOOD THE TEST

REASONS

Crucible Steel The use of High Cost Steel in our Knives and the Tempering of all Blades, both Stationary and Revolving, is confined to our works

High Grade Castings—Finest grade of Casting better adapted to Lawn Mowers than ordinarily used

Special Features—Having originated the Open Cylinder, and Open Wheel, the Train of Gears, the Self-Sharpening Mower and the first successful Ball Bearing Machines, we have proven the superiority of our mechanical equipment

Cast—The Economy of "Pennsylvania Quality" Mowers can be easily estimated. They save a sharpening cost of at least a dollar per year. They save in repair bills. They last so long that the cost is forgotten

ADVANTAGES OF A TRAIN OF GEARS OVER INTERNAL GEAR

Mowers using a Train of Gears run more easily and steadily by reason of their great length of wheel base The Driving Wheels may drop into a rut, but before the knife reaches it, the wheels are out again and the grass is cut smoothly because the wheels and roller span the rut. There is the additional advantage of a better distribution of wear and tear and increased power and speed

✣MACHINE ICE CREAM F ZERS

For Power or Hand

VED PHILADELPHIA

With Tight and Loo ch 18x4 inches, and 42 inch Fly Wheel Weighing 175 lbs. Should Run About 150 per Minute to Give Can About 100 Revolutions.

Height of Drive e Floor 33½ inches; Base Plate 38x24½ inches.

The Can and D Revolve and in Opposite Directions

The Can is M 8 Gauge Steel, Riveted-in Seam with Heavy Malleable Iron Bottom and Heavily Coated with Block Tin. The Top of Can is Reinforced with Heavy Steel Band.

The Dasher is Malleable Iron, Heavily Coated with Pure Block Tin; with Two Rolled Steel Side Scrapers and One Bottom Scraper

The Tub is Made of 1¾ inch White Cedar, with Staves Tongued and Grooved and Bound with Electrically Welded, Galvanized Steel Wire Hoops

40 Quart Only

	Each
✣No. 4012T—With Pulleys and Fly Wheel, Weight 640 lbs	$143.00

Loose

NOTE.—Machine Freezers with Copper Cans Furnished when Specified, Add to Price, Each $22 00

✣ICE BREAKERS

For Power or Hand Use

For Breaking Ice in Small Pieces, for Use in Freezing Ice Cream and Sherbets for Ice Cream Parlors, Confectioners, Hotels and Restaurants, and for Packing Fish, Oysters, Milk, etc., or where Broken Ice is Required in Quantity.

No. 12

Shaving Breaker Taken Apart for Easy and Quick Removal of Cylinder

No. 15

✣NEW RAPID

Flanged and Ribbed Cast Iron Frame Plates Held Securely Together by Strong Bolts, Extending Across the Width of Machine, and Held Tight by Lock Nuts. The Side Frames are Closed Tight at the Bearings, Preventing Ice Passing Through Into the Pulleys, an Important Feature not Found in Other Breakers. The Lower Plate in All Except No. 12 is Fitted Into Slides and can be Used Either at Front or Back of Machine as Desired. The Upper Back Plate in all Except No. 12 is Made to Adjust Toward or Away from the Cylinder in Order to Break the Ice Finer or Coarser with the Plate in Use.

The Crushers are Heavy and Strongly Braced, Clamped and Keyed to the Steel Driving Shaft, which is Supported in Bearings of Ample Size and Well Babbitted.

The Picks are Best Grade Drop Forged Steel, Made Round and Tapered at Shank to Fit Taper Hole in Cylinder and will Interchange without Machining or Fitting. They are Readily Removable from Socket by Tapping on Back End, yet are Driven Tight, and Socket During the Breaking of Ice, and will not Loosen and Fall Out

Two Combs, One Fine and One Coarse, are Furnished with Each Machine. Should Run 150 Revolutions per Minute. Fly Wheel with Handle Tight and Loose Pulley, Furnished with Each Machine

✣ Nos	12	15	21	28
Capacity per Hour, Tons	2½	4	6	12
Size of Opening, Inches	12x20	15x14	21x14	28x14
Size of Each Pulley, Inches	12x2½	14x3½	14x3½	14x3½
Diameter of Fly Wheel, Inches	24	30	30	30
Height of Frame, Inches	35½	34	34	34
Size of Base, Inches	16½x18½	21x23	27x23	36x23
Weight Each, Lbs	375	645	760	1200
Each	$100.00	156 00	185.00	$276.00

Loose

Items Marked ✣ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, Philadelphia, Pa.

AUTOMOBILE CLOCKS

PHINNEY-WALKER

FULLY WARRANTED

These Clocks meet the Demand for a Good Automobile Clock at a Reasonable Price. Made of the Best Grade Material and Very Handsome in Appearance and Workmanship, Strongly Built Especially to Withstand the Hard Usage and Vibration of Automobile Travel. Perfect in Construction and Good Time Keepers. Clocks are Easily Attached to Dash by Special Locking Device.

Note—To Wind Keyless Clock, Turn Bevel of Clock to the Right—Once a week, To Set or Regulate Clock Unscrew and take off Bevel by Turning to Left.

PHINNEY WALKER MOVEMENT

Fine Quick Beat 8-Day Time Movement. Cases Finished in polished Brass, Nickel, Black Enamel, with Nickel Rim.

	Each
2¼ inch Silver Finish Metal Dial, Heavy Plain Plate Glass Crystal; Height Over All 3⅝ inches; Width 3¼ inches; Weight per Clock 2¼ lbs.	
No. M10—Polished Brass Case	$13.20
No. M20—Nickel Plated Case	13.20
No. M30—Black Enameled Case with Nickel Rim	13.20
2⅝ inch Silver Finish Metal Dial, Heavy Plain Plate Glass Crystal; Height Over All 3⅝ inches; Width 3¼ inches; Weight per Clock 2¼ lbs	
No. O10—Polished Brass Case	$13.20
No. O20—Nickel Plated Case	13.20
No. O30—Black Enameled Case with Nickel Rim	13.20
2⅝ inch Silver Finish Metal Dial; Heavy Plain Plate Glass Crystal; Height Over All 3⅝ inches; Width 3¼ inches; Weight per Clock 2 lbs.	
No. S10—Polished Brass Case	$16.50
No. S20—Nickel Plated Case	16.00
No. S30—Black Enameled Case with Nickel Rim	16.50

NOTE.—A Card of Instructions for Winding Clock and Directions for fastening Clock to Dashboard of Automobile Packed With Each Clock; Each Clock Also Equipped With Key for Winding, and Screws, Nuts and Bolts for Fastening to Dashboard

The foundation of the SHAPLEIGH MAIL ORDER SERVICE is laid from the "Golden Rule"—when the merchant entrusts his Mail Orders to us, we show our appreciation by filling them with painstaking care, shipping promptly and entering rock-bottom prices.

AUTOMOBILE CLOCKS
FULLY WARRANTED

MINEOLA

Fine Quick Beat 8 Day Time Movements; Case finished in Polished Brass, Nickel Plated or Black Enamel Fitted with Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial, Height 4 inches, Width 4 inches, Open in Back. Weight per Clock 2 lbs.

	Each
No. MPN - Nickel Plated Case	$11.50
No. MPB - Polished Brass Case	11.50
No. MBE - Black Enamel Case	11.50

WESTBURY

Fine Quick Beat 8 Day Time Movements; Case Finished in Polished Brass, Nickel Plated or Black Enamel, with Polished Bezel, Height 4 inches, Width 4 inches, Open in Back. Weight per Clock 1¾ lbs.

	Each
No. WNP - Nickel Plated Case	$9.00
No. WPB - Polished Brass Case	9.00
No. WBE - Black Enamel Case	9.00

DIEPPE

Fine Quick Beat 8 Day Time Movement, Case Finished in Polished Brass, Nickel Plated or Black Enamel, 3 inch White Porcelain Dial, Height 5 inches, Width 4½ inches, Open in Back; Weight per Clock 2 lbs.

	Each
No. DNP - Nickel Plated Case	$11.50
No. DPB - Polished Brass Case	11.50
No. DBE - Black Enamel	11.50

NEW ORMOND

Heavy Brass Case, Finished in Polished Brass, Nickel Plated or Black Enamel. Fitted with Fine Quick Beat 8 Day Time Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial, Height 4 inches, Width 4 inches, Open in Back. Weight per Clock 1¾ lbs.

	Each
No. NONP - Nickel Plated Case	$8.50
No. NOPB - Polished Brass Case	9.50
No. NOBE - Black Enamel Case	9.50

SAVANNAH

Fine Quick Beat 8 Day Time Movements; Case Finished in Polished Brass, Nickel Plated or Black Enamel with White Porcelain Dial, Height 4½ inches, Width 4½ inches, Open in Back, Weight per Clock 1¾ lbs.

	Each
No. SNP - Nickel Plated Case	$10.00
No. SPB - Polished Brass Case	10.00
No. SBE - Black Enamel Case	10.00

JERICHO

Light Brass Case; Finished in Pol. Red Brass Nickel Plated or Black Enamel. Fitted with Fine Quick Beat 8 Day Movement, Heavy Bevel Plate Glass Crystal, 3 inch White Porcelain Dial, Height 4¾ inches, Width 4 inches, Open in Back. Weight per Clock 2 lbs.

	Each
No. JPN - Nickel Plated Case	$9.35
No. JPB - Polished Brass Case	9.35
No. JBE - Black Enamel Case	9.35

A. Locking Plate which Screws or Bolts to Dash Board and into which Clock Locks.

B. Screws or Bolts, Holding Locking Plate to Dashboard.

C. Bolt with Triangular Head (Requiring Special Key) which Locks Clock to Locking Plate.

D. End of Key to Lock Clock to Locking Plate.

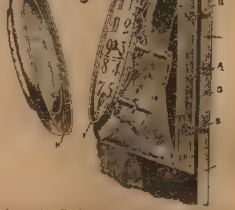
E. End of Key for Winding Clock.

F. Winding Arbor.

G. Back of Clock which Locks into Locking Plate.

H. Screw Bezel which makes Clock Dust and Water Proof.

I. Dashboard.



NOTE.—A Card of Instructions for Winding Clock and Directions for Fastening Clock to Dashboard of Automobile Packed with Each Clock. Each Clock also Supplied with Key for Winding, and Screws, Bolts for Fastening to Dashboard.

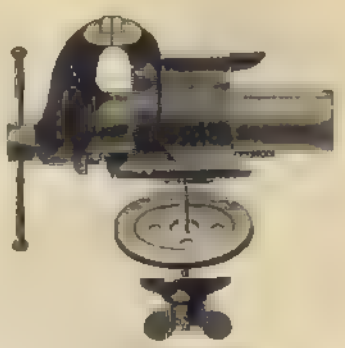
"DIAMOND EDGE IS A QUALITY PLEDGE"

VISES

PHOENIX

Japanned Body, Ground and Polished Jaws and Horn, Steel Screw and Lever

	Per Dozen
No. 1—Without Anvil, 1 in. Jaws, Open 1¼ In., Weight Each 6 Oz.	$ 4.80
No. 2—With Anvil, 1½ In Jaws, Open 1⅝ In., Weight Each 1¼ Lbs.	6.00
No. 3—Chilled Jaws and Anvil, 2 in Jaws, Open 2¼ in., Weight Each 4 Lbs.	14 40
No. 5—Steel Jaws, with Anvil, 2½ In. Jaws, Open 2⅝ In., Weight Each 9 Lbs.	30 00



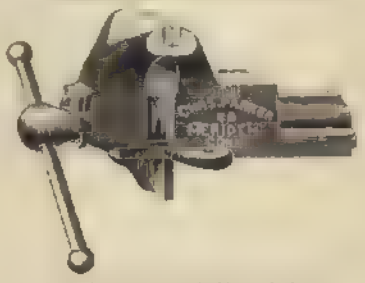
Swivel Base

Japanned Body, Tempered Steel Jaws, Chill Hardened Anvil Face, for Jewelers' and Mechanics' Use

	Per Dozen
No. 20—2½ In. Jaws, Open 2⅝ In.	$36 00

Weight Each 10 Pounds

PARKER'S OVAL SLIDE



Oval Slide, Steel Faced Jaws

Nos.	30	31	32	33	34	35
Jaws, Inches	2⅛	3	3¼	3½	4	4¾
Jaws Open, Inches	3⅜	4	4	4	4	4¼
Weight Each, Lbs.	8½	14	19	22	28	35
Each	$2 50	3 00	4 50	4 50	6 50	7 00

HINGE PIPE VISES

MAGIC

Hardened and Finished Steel Jaws, Malleable Iron Frame, Handsomely Finished

Nos.	111	112	113
Holds Pipe, Inches	⅛ to 2 ½	⅛ to 3½	¼ to 4 ½
Weight Each, Lbs.	1	15	19
Each	$2 75	3 50	6 00

These Vises are reversible hinge, latching on either side, they also have a pin lock in addition to the regular side latch.

CHAIN PIPE VISES

VULCAN

Drop Forged Steel Jaws, Hand Made Chain

	Each
No. 2—Holds ¼ to 4 in. Pipe, Weight Each 10 Lbs.	$7.50

Made entirely of wrought steel. The drop forged jaws are of saw-tempered steel for file-sharpening

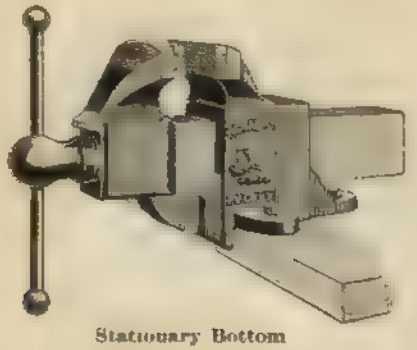
Adjustment is quickly effected by slightly turning the screw, and further quick adjustment is gained by engaging the projecting rivets of chain with a series of bosses on base

Unbreakable, compact, rapid in action and positive in gripping pipe.

One in a Box

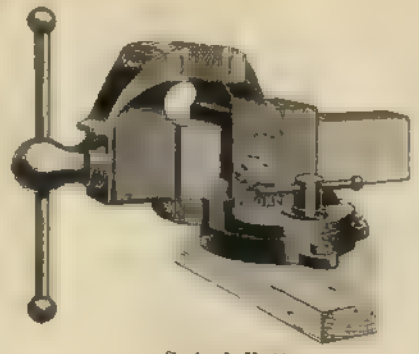
VISES

MONARCH MACHINISTS'



Stationary Bottom
Steel Faced Solid Jaws

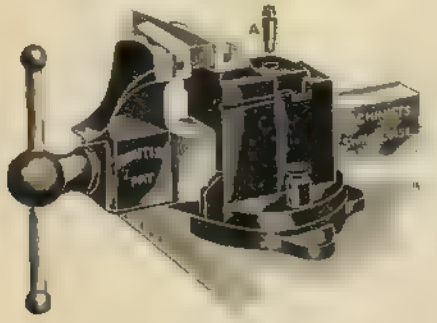
Nos.	213	215	217	219
Jaws, Inches	3½	4	4½	5
Jaws Open, Inches	4	5½	6	7
Wt. Each, Lbs.	22	28	42	52
Each	$7 00	8 00	10 00	12 00



Swivel Bottom
Steel Faced Solid Jaws

Nos.	214	216	218	220
Jaws, Inches	3½	4	4½	5
Jaws Open, Inches	4	5½	6	7
Weight Each, Lbs.	28	36	52	64
Each	$8 00	10 00	12 00	13 50

PRENTISS' IRONWORKERS'



Swivel Bottom
Steel Faced Self-Adjusting Jaws

	Each
No. 19½—4 in. Jaws, Opens 5¼ in.	$20.00

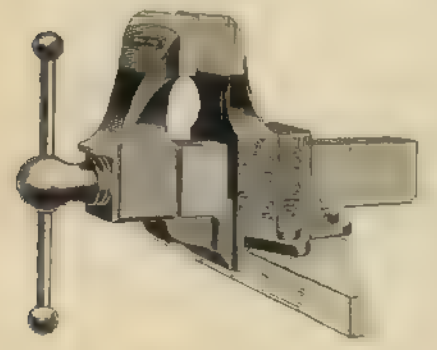
Weight Each 46 Pounds

HANDY

Stationary Bottom
Steel Faced Solid Jaws

Nos.	805	807
Jaws, Inches	2½	3
Jaws Open, Inches	2⅞	4½
Weight Each, Lbs.	8½	15
Each	$4 50	5 50

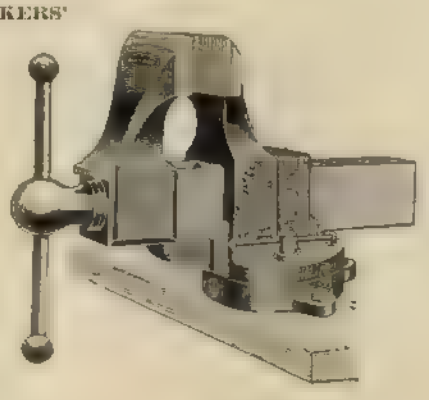
BULL DOG WOOD WORKERS'



Stationary Bottom
Steel Faced Solid Jaws

	Each
No. 59—4¼ in. Jaws, Opens 9 in.	$11.00

Weight Each 48 Pounds



Swivel Bottom
Steel Faced Solid Jaws

	Each
No. 99—4¼ in. Jaws, Opens 9 in.	$15.00

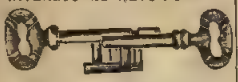
Weight Each 58 Pounds

Our Bull Dog Wood Workers' Vises are designed for use of Carriage and Wagon Makers, Pattern Makers and Wood Workers generally

Good Puzzles, Tricks and Jokers

All Fast Sellers

INTERLOCKED KEYS PUZZLE



No. N155. Magic Key Puzzle, consists of two keys interlocked; it seems impossible to separate them but is easily done when the way how is known; made of metal; sightly in finish.
Gross 1.40

No. N145. New Link Puzzle, cleverly designed, two interlocking links. It is quite a trick to separate them or put them together, and yet it is quite easy when you know how; made of cast iron, well finished.
Gross..... 2.25 | Dozen..... .20

No. N146. Link Puzzle, same style as above, but larger links, extra well made and finished.
Gross..... 4.00 | Dozen 35

NEW ELK PUZZLE

PATENTED

No. N153. Elk Puzzle. Clean, smoothly finished casting, nickel plated and polished, consists of 2 sets of Antlers hooked together. The object is to separate one from the other which is very neat and yet simple trick to accomplish.
Gross..... 4.50 | Dozen..... .40

TRIPLE HORSE SHOE PUZZLE

No. N149. Good Luck Puzzle. This popular puzzle consists of three horseshoes, 2 connected with rings and a third apparently slipped over them. It seems inseparable to the eye, but like all good puzzles, it is simple when once solved; brightly finished metal.
Gross..... . 3.00 | Dozen..... .27

INTERLOCKED STAR AND CRESCENT

No. N147. Star and Crescent Puzzle. This is also a very clever and apparently intricate to solve, made of sheet metal, 2¼x2¾ in. When the trick is solved it is very easily taken apart; big seller.
Gross..... 2.00 | Dozen..... .27

PICK-ME-OUT PUZZLE

No. N152. Negro Head Pick-Me-Out Puzzle, is rather a difficult one. The puzzle consists of Negro face and head. A steel ball is placed in his mouth which is rather large. The trick is to pick out the steel ball with the fingers which requires considerable practice.
Gross ..... 3.00 | Dozen . .... .26

CENTRIFUGAL PUZZLE

No. N151. Centrifugal 4 Ball Puzzle, this is a simple box 1¾ in. square, made of aluminum with transparent celluloid top, securely fitted in. The bottom of the box or tray has grooves in the shape of "X" interrupted in the center with depressions at each end of the groove, in which fit 4 steel balls. The trick is to spread the balls so that there is one in each corner.

A very good item for a souvenir, a premium or to sell.
Gross..... 4.50 , Dozen..... .40

Two Popular Ones

No. N154. Pea and Pot Trick, this is a good one, consists of a Pea Kernel and a little pot placed inside of a small glass jar or bottle. By shakes or jerks try to get the "Pea into the Pot." You'll find it a neat trick.
Gross..... 7.50 , Dozen..... .65

No. N143. Glass Smasher a Joker. Consists of 6 ringing steel plates about 4 in. long, 1½ in. wide. These, when dropped on the floor sound as though a ton of crockery came off the roof. Each set in envelope.
Dozen sets ..... .60

Magic Plate Lifter

The Most Enjoyable Joker That Ever Hatched Out.

No. N406. Plate Lifter. The best joker in the market. Consists of rubber bulb attached to rubber tube. At the end is a little flat rubber bag plate lifter which inflates by pumping the bulb. This little bag is placed under the table cover under your friend's dinner plate. The rubber tube with bulb is brought near your hand. Pumping the rubber bulb will inflate the plate lifter and, of course, make the plate jog up and down.
Dozen 2.00

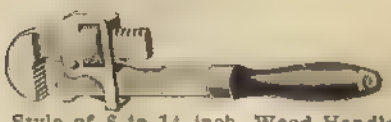
No. N405. Magic Plate Lifter. Same style as above, not as long and heavy, each in box, one dozen in carton.
Gross ..... 8.75 | Dozen ..... .75

A Good New One

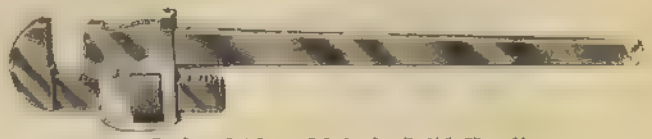
No. N87. Venus Pipe, a regular wooden pipe with bamboo stem, through the two holes in the front are stuck legs of a Venus figure. The torso and face is above pipe; inflates by blowing into stem; in red colors. Dozen ..... .75

PIPE WRENCHES

STILLSON



Style of 6 to 14 inch, Wood Handle



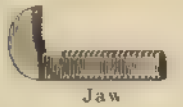
Style of 18 to 36 inch, Solid Handle

Drop Forged Steel, Blued, Double Spring

Length, Inches....	6	8	10	14	18	24	36
Adjustable, Inches	⅛ in. Wire to ½ in. Pipe	⅛ in. Wire to ¾ in. Pipe	⅛ in. Wire to 1 in. Pipe	⅛ in. Wire to 1½ in. Pipe	⅛ in. Wire to 2 in. Pipe	⅛ in. Wire to 2½ in. Pipe	¼ in. Pipe to 3½ in. Pipe
Weight Each, Lbs.	⅞	⅝	1¼	2½	4¼	8	15
Each	$2.00	2.00	2.25	3.00	4.00	6.00	12.00
	1.20	1.30	1.40	1.80	2.30	2.70	6.50

6 to 24 in., Six in a Box; 36 in., Two in a Box

EXTRA PARTS FOR STILLSON WRENCHES



Jaw

Frame

Nut

For Wrench, Inches	6	8	10	14	18	24	36
Jaws, Each	$0.75	$0.75	$0.80	$1.00	$1.33	$2.10	$4.75
	.54	.54	.58	.72	.96	1.60	3.50
Frames, Each ...	.35	.35	.40	.50	.70	.80	1.30
	.26	.26	.30	.36	.40	.58	.94
Nuts, Each	.11	.11	.14	.17	.22	.35	.50
	.08	.08	.12	.14	.16	.26	.40

TRIMO

Drop Forged Steel, Japanned, Polished Head and Jaws, All Parts Interchangeable

Length, Inches	6	8	10	14	18	24
Adjustable, Inches	⅛ in. Wire to ½ in. Pipe	⅛ in. Wire to ¾ in. Pipe	⅛ in. Wire to 1 in. Pipe	¼ in. Wire to 1½ in. Pipe	¼ in. Wire to 2 in. Pipe	⅛ in. Wire to 2½ in. Pipe
Weight Each, Lbs....	⅞	¾	1⅛	2⅝	4⅛	7½
Each	$2.00	2.00	2.25	3.00	4.00	6.00
	1.30	1.30	1.50	2.00	2.50	4.00

Six in a Box

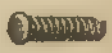
EXTRA PARTS FOR TRIMO PIPE WRENCHES

Movable Jaw

Frame

Inserted Jaw

Nut



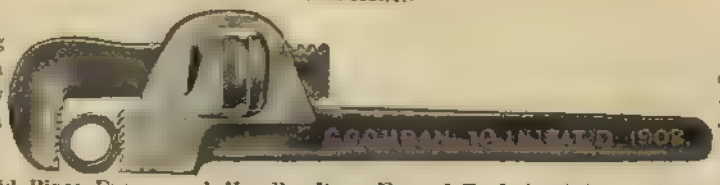
Spring and Pin

For Wrenches, Inches		6	8	10	14	18	24
Movable Jaw	Each,	$0.67	.67	.75	1.00	1.33	2.30
		.40	.40	.60	.70	.95	1.60
Nut	Each,	.20	.20	.27	.35	.42	.50
Inserted Jaw	Each,	.25	.25	.33	.50	.55	.65
Frame	Each,	.25	.25	.33	.45	.55	.75
Spring	Each,	.03	.03	.03	.03	.04	.04
Frame Pin	Each,	.03	.03	.03	.03	.04	.04
Jaw Pin	Each,	.03	.03	.03	.03	.04	.04

PIPE WRENCHES

COCHRAN

Has Rocker Bearing that takes the strain which in ordinary wrenches is Thrust Upon the Helpless Frame Pin



Has Nut Longer than on other Pipe Wrenches, which reduces Strain on Threads.

One Solid Piece Frame and Handle, Drop Forged Tool Steel Jaws, Rocker Bearing

Length, Inches	6	8	10	14	18	24
Adjustable, Inches	⅛ to ⅜	⅛ to ¾	⅛ to 1	¼ to 1½	¼ to 2	¼ to 2½
Weight Each, Lbs	¾	¾	1½	2¾	5	8
Each	$2 00	2.00	2.25	3.00	4.00	6.00
	1 20	1 20	1.40	1.80	2.40	3 50

Six in a Box

Extra Parts for Cochran Pipe Wrenches

For Wrenches, Inches		6	8	10	14	18	24
Hook Jaw	Each	$0 67	67	75	1 00	1.33	2 00
Inserted Jaw	Each,	25	25	33	50	55	65
Rocker	Each,	26	26	28	40	50	65
Nut	Each,	20	20	28	35	42	55
Spring	Each,	12	12	14	.17	21	25

BEMIS & CALL COMBINATION

No. 44—Forged Steel, Black, Short Nut, Hardwood Handle

Length, Inches	10	12	15	18
For Pipe, Inches	¼ to 1	½ to 1¾	½ to 2¼	½ to 3
Wt. Doz., Lbs.	25	36	52	81
Per Dozen	$23.00	26.00	37.00	66.00
	25.00	28.00	40.00	72.00

One-half Dozen in a Box

No. 46—Forged Steel, Black, Long Nut, Hardwood Handle

Length, Inches	10	12	15	18
For Pipe Inches	¼ to 1	½ to 1¾	½ to 2¼	½ to 3
Wt. Doz., Lbs.	25	38	55	84
Per Dozen	$25.25	28.50	40.50	72 00
	30.50	34.20	48.60	87 00

One-half Dozen in a Box

TRIMO, ONE WHEEL

Malleable Iron Frame, Tool Steel Wheel, Steel Handle and Screw

Nos.	1T	2T	3T
For Pipe, Inches	⅛ to 1¼	½ to 2	1¼ to 3
Weight Each, Lbs	4¾	5½	7
Each	$4 50	6 00	10 00
	2 60	3 45	5 70
Extra Cutter Wheels, Each	30	30	46
	25	25	35

PIPE CUTTERS

OSWEGO

Three-Wheel

(Barnes Pattern)

Malleable Iron Frame, Tool Steel Wheels, Steel Handle

Nos.	1	2
For Pipe, Inches	⅛ to 1	½ to 2
Weight Each, Lbs	¾	5
Each	$4 56	6 00
	2 20	2 70
Extra Cutter Wheels, Each	.25	.30
	20	30

Malleable Iron Frame, Tool Steel Wheels, Steel Handle

No.	3
For Pipe, Inches	1¼ to 3
Weight Each, Lbs	8½
Each	$10 00
	4.50
Extra Cutters, Each	40
	.30

PLANE IRONS.

OAK LEAF*

SOFT STEEL FORGED BODY, with Special Crucible Steel Bit, Carefully Tempered and Ground.
Will Fit Wood Bench Planes Only.

OAK LEAF*; SINGLE OR CUT.

Nos.	K200	K202½
Size, inches	2	2⅛
Weight per doz. about, lbs.	6¼	7
Per dozen	$6.00	6.50

Nos.	K202¼	K202⅝	K202½	K202⅝
Size, inches	2⅛	2⅜	2⅛	2⅜
Wgt. per dozen about, lbs.	7¾	7½	8½	8¾
Per dozen	$7.00	8.00	8.50	9.50

OAK LEAF* [illegible]

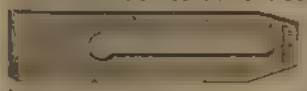
Nos.	K222	K222½
Size, inches	2	2⅛
Weight per doz. about, lbs.	9	10
Per dozen	$12.00	12.50

Nos.	K222¼	K222⅜	K222½	K222⅝
Size, inches	2¼	2⅜	2½	2⅝
Wgt. per dozen about, lbs.	11	12	13	14
Per dozen	$13.00	13.50	15.00	16.00

One-half Dozen in a Wood Box.

STANLEY'S and BAILEY'S Patent Improved.

FORGED FROM TOOL STEEL, Tempered and Polished.

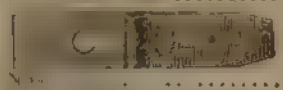


CUT Single, for Both Wood Bottom and Iron Planes. Fit Bailey and Bed Rock Planes.

Nos.	SC 1¼	SC 1⅝	SC 1¾	SC 2
Size, inches	1¼	1⅝	1¾	2
Weight per dozen about, lbs.	2	2	2½	3
Per dozen	$2.16	2.52	2.76	3.00
	3.30	3.80	4.20	4.50

Nos.	SC 2¼	SC 2¼	SC 2⅝	SC 2⅝
Size, inches	2¼	2¼	2⅝	2⅝
Weight per dozen about, lbs.	3¼	3½	4	5
Per dozen	$3.24	3	3.48	3.84
	4.90	5.10	5.30	5.80

No. BIP—For Planes Nos. 9½, 9¾, 10, 10½, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 or 220; Size 1⅝ in.; Weight per dozen about 10 lbs. ..... Per Dozen, $2.00 $3.00



DOUBLE, for Wood Planes; Fit Bailey Planes.

Nos.	WP2	WP2⅛	WP2¼	WP2⅝
Size, inches	2	2⅛	2⅜	2⅝
Wgt. per dozen about, lbs.	5½	6¼	7	7½
Per dozen	$6.24	5.40	5.64	5.76
	7.60	8.10	8.50	8.70

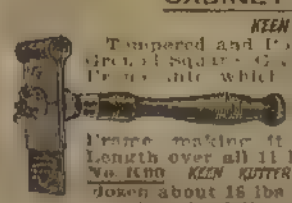
DOUBLE, for Iron Planes; Fit Bailey and Bed Rock Planes.

Nos.	IP1⅝	IP2	IP2¼	IP2⅝	IP2⅝
Size, inches	1⅝	2	2¼	2⅝	2⅝
Wgt. per doz. about, lbs.	4½	5½	7	9½	8¾
Per dozen	$4.56	5.04	5.64	5.76	6.00
	6.90	7.60	8.50	8.70	9.00

One-half Dozen in a Cardboard Box.

CABINET SCRAPERS.

KEEN KUTTER*



Tempered and Polished Tool Steel Blade, Edges Ground Square, Cast Steel Cutting Edge Soldered into which Blade is Firmly Keyed Nut in Front; Hardwood Handle, Dull Black Finish, with Ball and Socket Connection to Frame, making it Adjustable to Any Position; Length over all 11 in.

Per Dozen
No. K80 KEEN KUTTER*, Blade 3x4 in.; Weight per dozen about 16 lbs. $24.00
One-twelfth Dozen in a Cardboard Box.

Per Dozen
No. K83—Extra Blades for No. K80 Scrapers; Weight per dozen about 12 lbs. $2.10
One Dozen in a Cardboard Box.

KEEN KUTTER*

Nickel Plated Cast Iron Frame with Polished Hardwood Handle and Cutter, Tempered, Full Polished; SHARPENED AND WHETTED BY HAND ON AN OIL STONE, READY FOR USE; Length 11 in.

No. K79 KEEN KUTTER* Size of Cutter 2⅜ in., Weight per dozen about 18 lbs. ..... Per Dozen $18.00

No. K79B—Extra Blades for No. K79 Scrapers; Weight per dozen about 9 lbs. 2.00
One-twelfth Dozen in a Cardboard Box.

KEEN KUTTER* CABINET SCRAPERS.

[illegible] to be ground to shape desired, hand sharpened [illegible] for use. The Blade in the No. K80, can be set and held rigid to any angle.

CABINET SCRAPERS.

OAK LEAF*

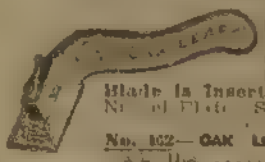
Black Japanned Cast Iron Frame, with [illegible] Steel Clamp and Thumb Screws; Tempered and Polished Tool Steel Cutter; Raised Handles; Length over all 11 in.; Size of Cutter 2¾ in.

Per Dozen
No. K77—OAK LEAF*, Weight per dozen about 21 lbs. $17.00
One-twelfth Dozen in a Cardboard Box.

STANLEY'S

Japanned Cast Iron Frame and Clamp; Raised Handles, Polished and Tempered Tool Steel Cutters. Length 11 in.; Size of Cutter 2¾ in.

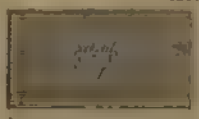
Per Dozen
No. 80—STANLEY'S; Weight per dozen about 21 lbs. $18.00
No. 80B—Extra Blades for No. 80 Scrapers; Cast Tool Steel; Weight per dozen about 11½ lbs. 4.10
One-twelfth Dozen in a Cardboard Box.



Beechwood Curved Handle, 12⅛ in. Long, Varnished Top and Bottom [illegible] Crucible Steel Blade, 3x3 in., Polished, Tempered and Sharpened. Blade is Inserted in Handle and Fastened with Nickel Plated Steel Screw and Tightening Nut.

Per Dozen
No. 82—OAK LEAF*; Weight per dozen about 5⅜ lbs. $4.80
No. 82B—Extra Blades for No. 82 Scrapers; Weight per dozen about 1⅝ lbs. 3.80
One-half Dozen in a Cardboard Box.

KEEN KUTTER*; FLAT STEEL.



Highest Grade Crucible Steel, Oil Tempered and Polished.

Nos.	K24	K33	K33½
Size, inches	2x4	3x3	2½x5
Wgt. per doz. abt., lbs.	1½	2	2
Per dozen	$2.10	2.10	2.10

Nos.	K45	K45½	K46
Size, inches	5x5	5½x6	4x8
Weight per dozen about, lbs.	2¾	3½	4
Per dozen	$2.10	2.00	2.80

One Dozen in a Cardboard Box.

STANDARD FLAT STEEL.

Cut from Saw Steel, Polished and Tempered.

Nos.	S 24	S 25½	S 45	S 45½	S 46
Size, inches	2x4	2½x5	3x3	3	4x6
Weight per dozen about, lbs.	1	2	2½	3	4
Per dozen	$1.00	1.30	1.50	1.80	2.00

One Dozen in a Package.

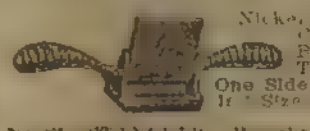
STANLEY'S.

Adjustable, Nickel Plated Cast Iron Frame and Clamp; Hardwood Handle [illegible] Tempered Steel Cutter [illegible] Size of Cutter 2⅜ in.

No. 83—STANLEY'S, Weight per dozen about 18 lbs. ..... Per Dozen $18.00

No. 83B—Extra Cutters for No. 83 Scrapers; Size 2 in.; Weight per dozen about 3 lbs. ..... per dozen 4.80

Can be Adjusted to Any Desired Pitch, and may be worked [illegible] as a Super [illegible] of the [illegible] of the work [illegible] Bailey Wood Planes, [illegible].



Nickel Plated Cast Iron Frame and Cap with Polished Hardwood Handle and Rosewood Bottom; Tempered Tool Steel Cutter, [illegible] One Side; Raised Handles; Length 10 in.; Size of Cutter 2½ in.

Per Dozen
No. 81—STANLEY'S; Weight per dozen about 20 lbs. $27.00
One-twelfth Dozen in a Cardboard Box.

VENEER SCRAPERS.

Japanned Cast Iron Frame and Clamp; Steel Adjusting Screws; Polished Rosewood Handles, Tempered and Polished Tool Steel Cutters, Adjustable to any Angle, Length 5¾ in., Size of Cutter 3 in.

Each
No. 12 Weight each about 1 lb. $3.80

This Tool Uses [illegible] Cutters as Stanley Plane No. 212.
One in a Cardboard Box.

THREE CORNERED SCRAPERS.

*KEEN KUTTER**

Highest Grade Crucible Steel Blade, Tempered and Polished; Fancy Turned Hardwood Handle, Mahogany Finish; Polished Steel Ferrule. Length of Blade 3½ in.; Length over all 8 in.

Per Dozen

No. K7—*KEEN KUTTER**; Weight per dozen about 3 lbs..$5.80

One-half Dozen in a Cardboard Box.

SCRAPERS OR BURNISHERS.

Tempered and Polished Tool Steel Oval [illegible] Wide, 4½ in. Long; Polished Applewood Handle with Nickel Plated Brass Ferrule; Length over all 9 in.

No. 3—Weight per dozen about 1½ lbs...Per Dozen, $4.30

Tempered and Polished Tool Steel Square Blade ⅛ in. Thick, 4½ in. Long, with Round Point Tapered 1 in. from Tip; Polished Applewood Handle, with Nickel Plated Brass Ferrule; Length over all 9 in.

No. 5—Weight per dozen about 2 lbs....Per Dozen, $4.80

One-half Dozen in a Cardboard Box.

‡*FLOOR SCRAPERS.*

Japanned Cast Iron Frame, Width over all 7½ in., Tempered Tool Steel Knife 1⅝ in. Wide; Natural Finish Hardwood Handle; Rubber Tired Rollers; Diameter of Small Roller 2¾ in.; Diameter of Large Roller 3½ in.; Length of Handle 37⅞ in.; Length over all 65⅞ in.

Each

‡No. LG—*LITTLE GIANT; Weight each about 60 lbs. $60.00*

The following Tools included with Each Machine.

6 only Little Giant Knives,
1 only Little Giant Filing Clamp,
1 only Little Giant Wrench,
1 only Little Giant Burnishing Tool,
1 only Little Giant Flat Mill File,
1 only Little Giant Oil Stone

One in a Case.

HAND BEADERS.

STANLEY S, Nickel Plated Cast Iron Frame and Handles; Seven Tempered and Polished Tool Steel Cutters, fitted with Gauge for Straight or Oval Work; Cutters are Sharpened at Both Ends; Width of Cutters ⅛ to 1 in. Assorted

Per Dozen

No. 60—Length over all 10 in.; Weight per dozen about 16 lbs. $19.50

For Beading, Reeding or Fluting Straight or Irregular Surfaces and for all kinds of Light Routing, with Square Gauge for Straight and an Oval Gauge for Curved Work. Seven Steel Cutters go with each Tool.

One-half Dozen in a Cardboard Box.

ROOFING BRACKETS.

Cut Showing Use.

Japanned Spring Steel Parts Riveted Together; Width of Steel 1¼ in.; Thickness 3/32 in.; Length 8 in.

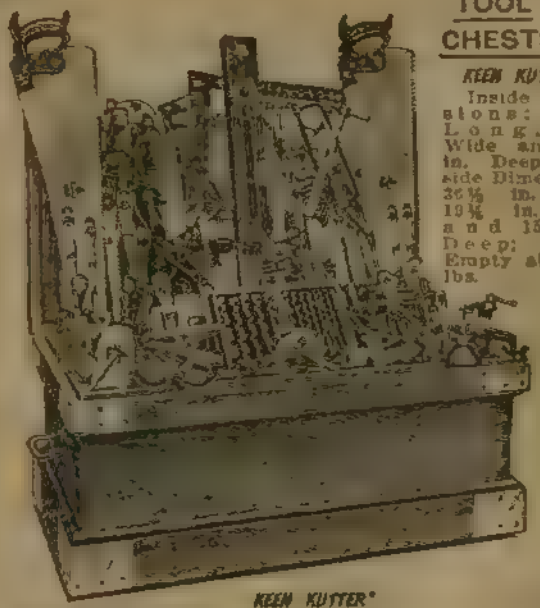
No. 1—Weight per dozen about 15 lbs. .....Per Dozen, $4.80

One-half Dozen in a Cardboard Box.

KEEN KUTTER CHEST No. K25

To the lover of good tools this combination is a most pleasing picture to look at, but to properly appreciate its real serviceable value, must be seen. A great variety of the highest grade tools suitable for most any need that could arise, either in the work day of the regular mechanic or the amateur artisan, contained in a most substantial hardwood chest, steel bound—built to last.

TOOL CHESTS.



*KEEN KUTTER**

Inside Dimensions: 33 in. Long, 16 in. Wide and 13¾ in. Deep; Outside Dimensions, 36½ in. Long, 19¾ in. Wide and 15½ in. Deep; Weight Empty about 80 lbs.

No. K25—*KEEN KUTTER** Tool Chest, Complete with 90 High Grade Tools, as described below.....Each, $110.00

Selected Hardwood Chest, Varnished; Raised Panel in Lid; Dove-tailed Corners; Brass Plated Steel Corner Irons on all Corners, Brass Plated Spring Lock and Two Keys; Heavy Brass Plated Lifting Handles and Stay Hinge to Hold Lid; Two Sliding Tills, One Open, with 3 Compartments, and One with Lid with 5 Compartments; Saw Rack for 6 Saws and Place for Steel Square in Lid.

CONTENTS OF No. K25 *KEEN KUTTER* TOOL CHEST:

1 *KEEN KUTTER* Hand Saw No. K38, 26 in.
1 *KEEN KUTTER* Rip Saw No. K38, 26 in.
1 *KEEN KUTTER* Compass Saw No. K95, 12 in.
1 *KEEN KUTTER* Hack Saw No. K138, 8 in.
1 *KEEN KUTTER* Cabinet Saw No. K91, 12 in.
1 *KEEN KUTTER* Coping Saw No. K8
1 *KEEN KUTTER* Iron Jack Plane No. K5/C.
1 *KEEN KUTTER* Block Plane No. K9½
1 *KEEN KUTTER* Steel Square No. K100.
1 *KEEN KUTTER* Try Square No. K122, 6 in.
1 *KEEN KUTTER* Boxwood Rule No. K620
1 *KEEN KUTTER* Tape Line No. K52.
1 *KEEN KUTTER* Level No. K30
1 *KEEN KUTTER* Sliding T Bevel No. K125, 8 in.
1 *KEEN KUTTER* Marking Gauge No. K10.
1 *KEEN KUTTER* Drawing Knife, 8 in.
1 *KEEN KUTTER* Half Hatchet No. KNH0L
1 *KEEN KUTTER* Nail Hammer No. K5[illegible]
1 *KEEN KUTTER* Machinists' Hammer No. KM3[illegible]
1 *KEEN KUTTER* Tack Hammer No. K[illegible]
1 *KEEN KUTTER* Ratchet Brace No. K[illegible]0.
1 Set *KEEN KUTTER* Auger Bits No. KS/13.
1 *KEEN KUTTER* Reamer Bit No. K115
1 *KEEN KUTTER* Expansive Bit, Large No. K101.
3 *KEEN KUTTER* Gimlet Bits, Ger Pat., 1 each No. 3, 5 and 7, ⅜ in.
2 *KEEN KUTTER* Countersink Bits, 1 each No. K[illegible] and K114
1 *KEEN KUTTER* Screw Driver Bit No. K103.
6 *KEEN KUTTER* Socket Firmer Chisels, Bevel Edge, No. KSB, One each ¼, ⅜, ½, ⅝, 1 and 1½ in.
1 *KEEN KUTTER* Cold Chisel, ¾ in.
1 *KEEN KUTTER* Socket Firmer Gouge, ½ in
3 *KEEN KUTTER* Screw Drivers No. K50, One each 3, 5 and 8 in.
2 *KEEN KUTTER* Special Slim Taper Files, 4½, 6 in., with Hdl.
1 *KEEN KUTTER* Mill File, 8 in., with Handle
1 *KEEN KUTTER* Half Round Cabinet File, 10 in., with Handle.
1 *KEEN KUTTER* Hand Drill No. K3.
1 *KEEN KUTTER* Awl and Tool Set No. K35.
1 *KEEN KUTTER* Scratch Awl No. K111.
1 *KEEN KUTTER* Brad Awl No. K110.
1 *KEEN KUTTER* Divider No. K10, 8 in.
1 *KEEN KUTTER* Side Cutting Plier No. K950, 6 in.
1 *KEEN KUTTER* Combination Plier No. K140
1 *KEEN KUTTER* Carpenters' Pincer No. K808
2 *KEEN KUTTER* Nail Sets, No. K200, One each 2/32, 4/32 in.
1 *KEEN KUTTER* Glass Cutter No. K10.
1 *KEEN KUTTER* Cabinet Scraper No. K35
1 *KEEN KUTTER* Carpenter Pencil No. K107.
1 *KEEN KUTTER* Carpenter Apron No. K.
1 *KEEN KUTTER* Pipe Wrench No. K14
1 *KEEN KUTTER* Wrench No. KB, 8 in., and No. K46.
1 *KEEN KUTTER* Mounted Oil Stone No. KM6
1 *KEEN KUTTER* Beveled Oil Slip No. KBS
6 Sheets *KEEN KUTTER* Sand Paper, Assorted.
1 *KEEN KUTTER* Hickory Mallet No. K300.
1 Can Klincher Glue, 4 oz
1 Copperite Oiler No. 12
1 Pair Carriage Clamps, 2½ in.
1 Spool Wire No. 38T
1 *KEEN KUTTER* Tinners' Snip No. K9.
1 *KEEN KUTTER* Hack Saw Blades No. KR, 8 in.
1 Bench Vise No. 12.
1 Package Assorted Screws.
1 Package Assorted Nails, Brads and Tacks

Wgt. with Tools, Crated Ready for Shipment, abt. 350 lbs.

PLUMB BOBS

IRON

Adjusted Top, Japanned

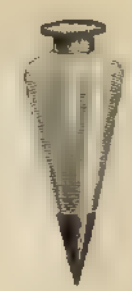
Nos.	1	1½	1½
Weight Each	9½ oz.	18 oz.	1½ lbs.
Per Dozen	$2.00	3.00	3.50

Per Dozen

No. 016—Adjusted Top, Nickel Plated, Weight Each 1 Lb. $4.75

No. 1, One Dozen; Nos. 1½ and 016, One-half Dozen in a Box

CAST BRASS



Nos. 2 and 3

No. 8

Screw Top, Steel Point

Nos.	2	3	8
Weight Each Oz.	6½	12	16
Per Dozen	$6.50	8.50	12.00

One-half Dozen in a Box

HOLD FAST

Per Dozen

No. 18—Weight Each 8 Oz., Hexagon High Carbon Steel, Nickel Plated, Rust Proof, Tempered Point, Complete with 7½ Feet Braided Linen Line $5.00

One-half Dozen in a Box

B. M. CO.'S.

No. 50—Long Neck, Rich Bronze Metal, Screwed In Steel Point, Screw Top

Weight Each, Oz.	4	6	8	10	12
Per Dozen	$10.00	12.00	16.00	20.00	24.00
Weight Each, Oz.	16	20	32	48	
Per Dozen	$26.00	32.00	52.00	72.00	

One-twelfth Dozen in a Box

STARRETT'S IMPROVED

No. 177—Solid Steel, Nickel Plated, Knurled Body, Hardened and Ground Point, Complete with Braided Silk Line

Weight Each, Oz.	2¾	5	14½
Length, Inches	4	5	6
Diameter, Inches	½	⅝	1
Per Dozen	$14.40	19.20	38.40

One-twelfth Dozen in a Box

STARRETT'S IMPROVED MERCURY

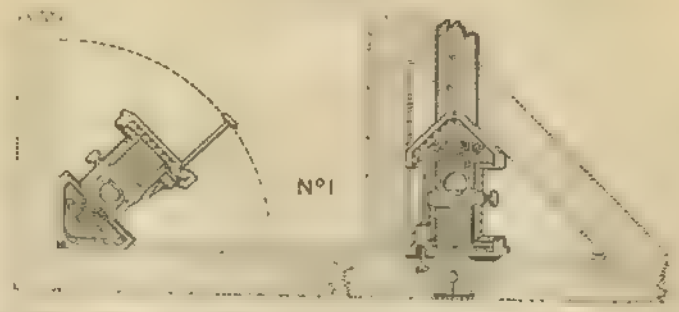
No. 87—Solid Steel, Bored and Filled with Mercury, Nickel Plated, Knurled Body, Hardened and Ground Point, Complete with Braided Silk Line

Weight Each, Oz.	3½	6	16
Length, Inches	4	5	6
Diameter, Inches	½	⅝	1
Per Dozen	$19.20	28.80	48.00

Nos. 177 and 87 Starrett's Plumb Bobs have a patented device for fastening the string without a knot to the or untie simply by drawing it into the peculiarly slotted neck at the top, after unwinding the required length, when the bob will hang perfectly true.

One-twelfth Dozen in a Box

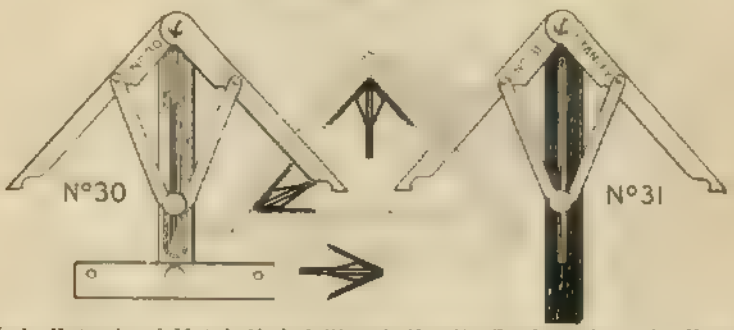
ODD JOBS
STANLEY'S



No. 1 4 in Long, Nickel Plated with 1 ft Rule, Graduated in Sixteenths of Inches. Combines a Level, Plumb, Try Square Mitre Square, Bevel, Scratch Awl, Depth Gauge, Marking Gauge, Mitre Gauge Beam Compass and a One Foot Rule — Per Dozen $14 00

Weight Per Dozen 7 Pounds
One-twelfth Dozen in a Box

ANGLE DIVIDERS
STANLEY'S



Per Dozen

No. 30—7⅝ in Long, Made Entirely of Metal Nickel Plated, Handle Graduated on the Under Side for Laying Out 4, 6 or 8 Sided Work $24.00

No. 31—8 in Long, Rosewood Handle, Not Graduated and without T Head 18 00

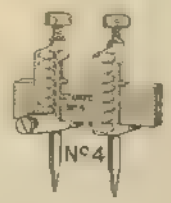
Especially designed for bisecting or dividing any angle and for fitting mouldings or other woodwork into odd angles The two blades each fit one side of an angle and the handle gives the center line The cut is marked from the center. By means of a removable T Head it can also be used as a T square.

Weight Per Dozen 7 Pounds
One-twelfth Dozen in a Box

STANLEY'S RULE

TRAMMEL POINTS

STANLEY'S



Per Pair

No. 99—2 in Long, Polished Brass, Movable Steel Points, for ¾ in. Straight Edge, with Pencil Socket $1 00

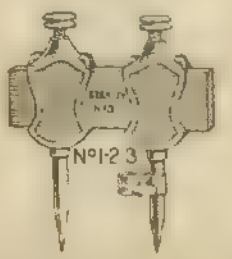
Can be attached to carpenters' rules of any ordinary width

Per Pair

No. 4—4½ in. Long, Iron, Nickel Plated, Steel Points, with Pencil Socket $1 30

Can be attached to one side of any straight stick The pencil socket will take an ordinary sized pencil, or a full sized oval shaped carpenters pencil

One Pair in a Box
STANLEY'S



Per Pair

No. 2—4½ in. Long, Bronze Metal, Steel Points, for 1 in. Straight Edge, with Pencil Socket $1.70

A Pencil Socket, which accompanies each pair, can be firmly clamped on the Steel Points, and up to the last stock

One Pair in a Box

One Pair in a Box
STARRETT'S

Per Pair

No. 504 Bronze Metal, Nickel Plated, 3 in Hardened Forged Steel Points Adjustable Like Spring Dividers $4.00

Either point can be removed and the pencil socket accompanying each pair put in its place

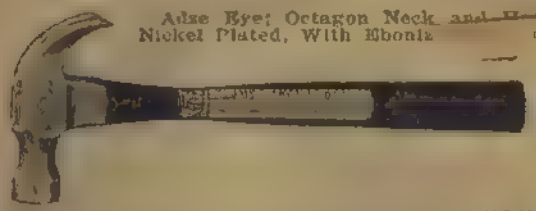
One Pair in a Box

HANDLED HAMMERS.

F. R. PLUMB BRAND

Forged from High Grade Crucible Steel; Hardened Face, Tempered Claws.

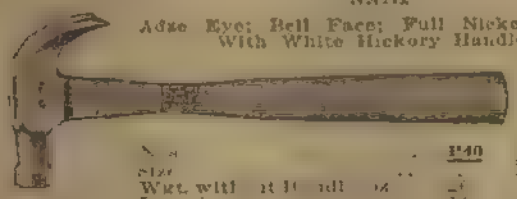
NAIL.



Adze Eye; Octagon Neck and H[illegible]; Full Nickel Plated, With Ebonit[illegible]

Nos.		P0/11	P0/12
Size		11	2
Weight without Handle, oz.		17	18
Length over all, inches		13	13
Weight per dozen about lbs.		2[illegible]	[illegible]
Per dozen		$17.50	17.00

NAIL.

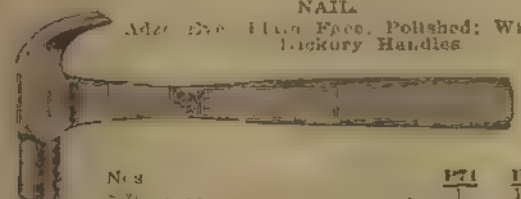


Adze Eye; Bell Face; Full Nickel Plated, With White Hickory Handles.

Nos.	P40	P41	P42
Size	1	1	2
Wgt. without Handle oz.	[illegible]	16	[illegible]
Length o[illegible]	14	13	13
Wgt. per dozen about, lbs.	24	[illegible]	16
Per dozen	$15.50	15.00	14.50

One-half Dozen in a Wood Box. Six Doz[illegible] in a Case.

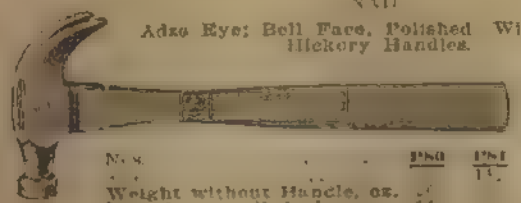
NAIL.



Adze Eye; Plain Face, Polished; With White Hickory Handles.

Nos.	P71	P72	P73
Size	1	1	2
Weight without Handle, oz.	20	[illegible]	16
Length over all, inches	[illegible]4	1[illegible]	13
Weight per dozen about, lbs.	[illegible]	18½	14
Per dozen	$11.00	10.00	9.50

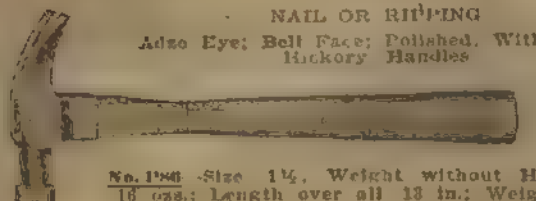
NAIL.



Adze Eye; Bell Face, Polished; With White Hickory Handles.

Nos.	P80	P81	P82	P83
Size	[illegible]	1½	2	3
Weight without Handle, oz.	[illegible]	[illegible]	14	12
Length over all, inches	14	[illegible]¼	14	13
Wgt. per doz. abt., lbs.	26	[illegible]	14	9
Per dozen	$10.50	10.00	9.50	9.00

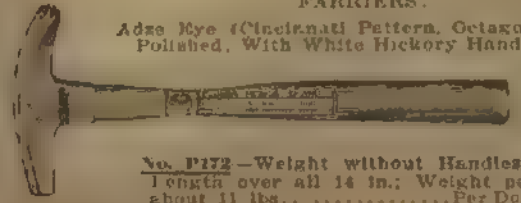
NAIL OR RIPPING



Adze Eye; Bell Face; Polished, With White Hickory Handles.

No. P86—Size 1¼, Weight without Handles, 16 ozs.; Length over all 13 in.; Weight per dozen about 15½ lbs.... .....Per Dozen, $10.00

FARRIERS'.



Adze Eye (Cincinnati Pattern, Octagon Poll), Polished, With White Hickory Handles.

No. P172—Weight without Handles, 10 oz.; Length over all 14 in.; Weight per dozen about 11 lbs.. .....Per Dozen, $8.50

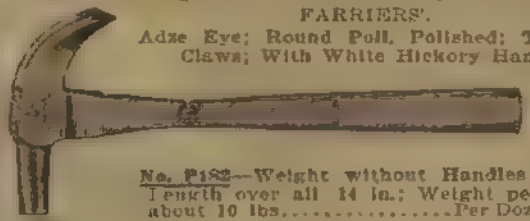
One-half Dozen in a Cardboard Box; Six Dozen in a Case

HANDLED HAMMERS.

F. R. PLUMB BRAND

Forged from High Grade Crucible Steel; Hardened Face.

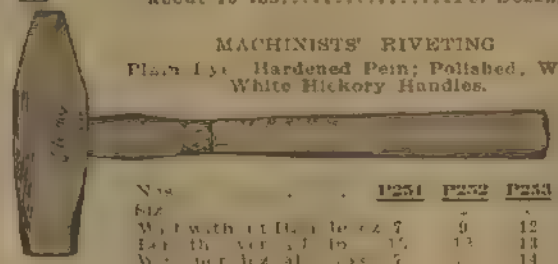
FARRIERS'.



Adze Eye; Round Poll, Polished; Tempered Claws; With White Hickory Handles.

No. P182—Weight without Handles 10 oz.; Length over all 14 in.; Weight per dozen about 10 lbs.....Per Dozen, $9.00

MACHINISTS' RIVETING

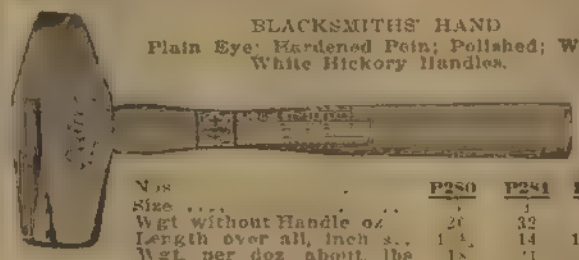


Plain Eye; Hardened Pein; Polished, With White Hickory Handles.

Nos.	P251	P252	P253	P254
Size	[illegible]	[illegible]	[illegible]	[illegible]
Wgt. without Handle oz.	7	9	12	15
Length over all, in.	12	13	13	13
Wgt. per doz. about, lbs.	7	[illegible]	14	18
Per dozen	$7.50	7.70	8.00	8.50

One-half Dozen in a Cardboard Box; Six Dozen in a Case

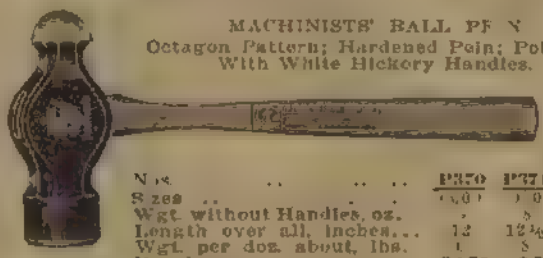
BLACKSMITHS' HAND



Plain Eye; Hardened Pein; Polished; With White Hickory Handles.

Nos.	P280	P281	P282
Size	[illegible]	[illegible]	[illegible]
Wgt. without Handle oz.	20	32	42
Length over all, inches	13½	14	14½
Wgt. per doz. about, lbs.	18	[illegible]1	2[illegible]
Per dozen	$11.50	12.50	13.50

MACHINISTS' BALL PEIN



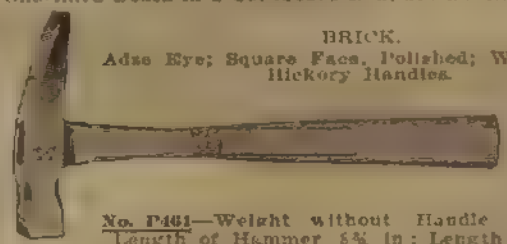
Octagon Pattern; Hardened Pein; Polished; With White Hickory Handles.

Nos.	P370	P371	P372
Sizes	[illegible]0	[illegible]0	0
Wgt. without Handles, oz.	[illegible]	[illegible]	12
Length over all, inches	12	12⅜	13
Wgt. per doz. about, lbs.	11	8	12
Per dozen	$6.70	6.70	6.70

Nos.	P373	P374	P375	P376	P377
Sizes	0	1	2	3	4
Wgt. without Handles	16	20	24	28	32
Length over all, inches	14	14½	15	16	16
Wgt. per doz. abt. lbs.	18	21	24	[illegible]	33
Per dozen	$7.20	7.70	8.20	8.50	9.00

One-third Dozen in a Cardboard Box; Six Dozen in a Case

BRICK.



Adze Eye; Square Faces, Polished; With White Hickory Handles.

Per Dozen

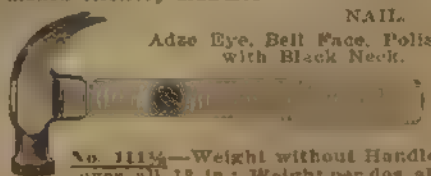
No. P461—Weight without Handle 1½ lbs. Length of Hammer 5¾ in.; Length over all 12 in.; Weight per dozen about 22 lbs....$16.50

One-half Dozen in a Cardboard Box; Six Dozen in a Case.

ECONOMY.

Solid Cast or Converted Steel, Hardened Face; Varnished Hickory Handles

NAIL.



Adze Eye, Bell Face, Polished, with Black Neck.

Per Dozen

No. 111½—Weight without Handle 16 oz.; Length over all 13 in.; Weight per doz. about 16 lbs...$5.00

One-half doz. in a Cardboard Box; Six doz. in a Case.

HANDLED HAMMERS.

OAK LEAF*

Drop Forged from One Solid Piece of Special Crucible Steel; Hardened Face; Handled with Extra Grade White Hickory Handle, and FASTENED WITH OUR SIMMONS PATENT WEDGE

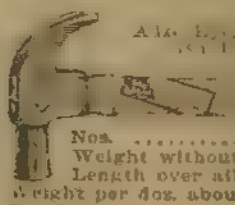
NAIL.

Adze Eye, Bell Face, Polished; Natural Finish on Neck and Under Claw. Extra Grade White Hickory Handle.

Nos.	E11	E11½	E12	E13
Weight with H. Handle oz.	20	16	13	7
Length over all, in	14	13	13	-
Weight per doz. about, lbs.	32	18	15	10
Per dozen	$10.50	10.00	9.50	9.00

NAIL.

Adze Eye, Plain Face, Polished; Natural Finish on Neck and Under Claw. Extra Grade White Hickory Handle.



Nos.	E1	E1½	E2	E3
Weight without Handle, oz.	20	16	13	7
Length over all, in.	14	13	13	12
Weight per doz. about, lbs.	32	18	15	10
Per dozen	$10.50	10.00	9.50	9.00

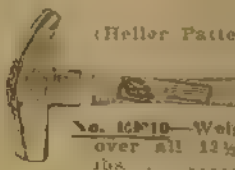
NAIL OR RIPPING

Adze Eye, Bell Face, Straight Claws, Polished with Black Neck; Extra Grade White Hickory Handle.

Nos.	E11½	E12	E13
Weight without Handle, oz.	16	13	7
Length over all, in.	13	13	12
Weight per doz. about, lbs.	18	15	10
Per dozen	$10.00	9.50	9.00

FARRIERS'.

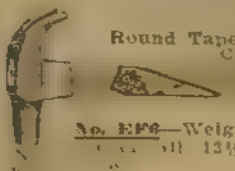
(Heller Pattern), Tempered Whalebuck Claws. Adze Eye, Polished



No. FP10—Weight without Handle 10 oz.; Length over all 12½ in. Weight per doz. about 12 lbs. ..... Per Dozen, $10.00

FARRIERS

Round Tapering Poll Polished, with Regular Curved Tempered Claws



PLAIN EYE

No. EF6—Weight without Handle 7 oz.; Length over all 12½ in.; weight per doz. about 9 lbs. ..... Per Dozen, $8.00

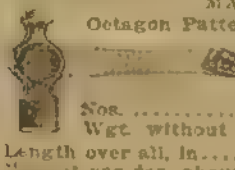
ADZE EYE

No. EF7—Weight without Handle 7 oz.; Length over all 12 in., Weight per dozen about 10½ lbs.. Per Dozen, $8.50

One-half doz. in a Cardboard Box, Six doz. in a Case

MACHINISTS' BALL PEIN.

Octagon Pattern, Black Finish with Polished and Hardened Face and Pein.

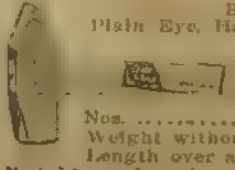


Nos.	EM1/0	EM3/0	EM2/0	EM0
Wgt. without Hdl., oz.	6	8	12	16
Length over all, in.	12	12½	13½	14½
Weight per doz. about, lbs.	6¾	10½	14	18
Per dozen	$8.50	8.50	8.50	8.00

Nos.	EM1	EM2	EM3	EM4
Weight without Handle, oz.	20	24	28	32
Length over all, in.	15	16	16	17
Weight per doz. about, lbs.	21	24	28	32
Per dozen	$9.50	10.00	10.50	11.00

BLACKSMITHS' HAND

Plain Eye, Hardened Face and Cross Pein, Polished



Nos.	EH1	EH2	EH3
Weight without Handle, oz.	32	42	48
Length over all, in.	15½	16	16½
Weight per doz. about, lbs.	29	36	42
Per dozen	$12.00	13.00	13.50

One-third doz. in a Cardboard Box; Six doz. in a Case

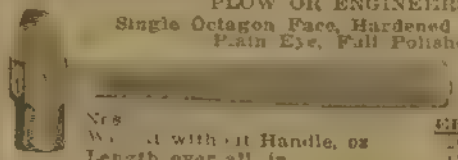
HANDLED HAMMERS.

OAK LEAF*

Drop Forged from One Solid Piece of Special Crucible Steel; Hardened Face; Handled with Extra Grade White Hickory Handle, and FASTENED WITH OUR SIMMONS PATENT WEDGE

PLOW OR ENGINEERS'.

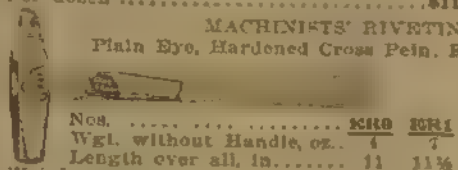
Single Octagon Face, Hardened Cross Pein, Plain Eye, Full Polished.



Nos.	EE1	EE2	EE3
Wgt. without Handle, oz.	20	24	28
Length over all, in.	15	16	17
Weight per doz. about, lbs.	24	28	34
Per dozen	$11.50	12.00	13.00

MACHINISTS' RIVETING.

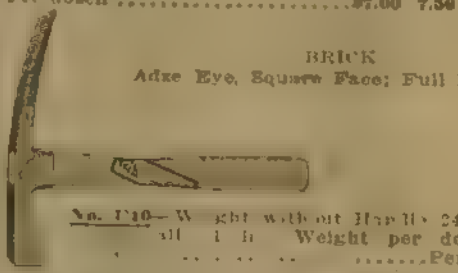
Plain Eye, Hardened Cross Pein. Full Polished.



Nos.	ER0	ER1	ER2	ER3	ER4
Wgt. without Handle, oz.	4	7	9	12	16
Length over all, in.	11	11½	12	12½	13
Weight per doz. about, lbs.	5	8	9½	12½	18
Per dozen	$7.00	7.50	8.00	8.50	9.00

BRICK

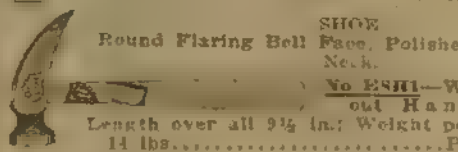
Adze Eye, Square Face; Full Polished



No. P10—Weight without Handle 24 oz.; Length over all 14 in. Weight per doz. about 22 lbs. ..... Per Dozen, $14.50

SHOE

Round Flaring Bell Face, Polished, with Black Neck.



No. ESH1—Weight without Handle 13 oz.; Length over all 9½ in.; Weight per doz. about 14 lbs. ..... Per Dozen, $7.50

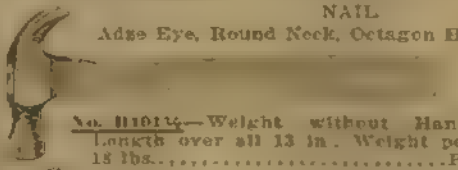
One-half doz. in a Cardboard Box. Six doz. in a Case.

BAY STATE*.

Solid Forged Steel; Hardened Face and Claws; Fitted with Medium Grade Hickory Handle, and FASTENED WITH OUR SIMMONS PATENT WEDGE.

NAIL

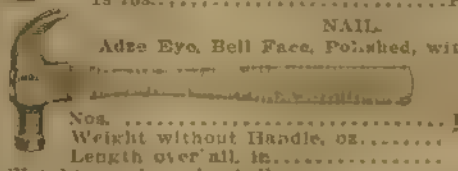
Adze Eye, Round Neck, Octagon Head; Polished.



No. B10½—Weight without Handle 16 oz.; Length over all 13 in. Weight per doz. about 18 lbs. ..... Per Dozen, $9.00

NAIL.

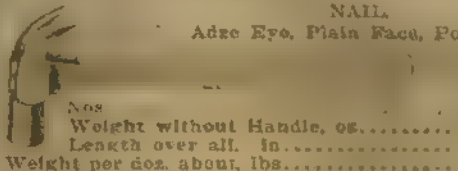
Adze Eye, Bell Face, Polished, with Black Neck.



Nos.	B10½	B20	B10
Weight without Handle, oz.	16	13	7
Length over all, in.	13	12	-
Weight per doz. about, lbs.	18	14	
Per dozen	$8.00	7.50	7.00

NAIL.

Adze Eye, Plain Face, Polished

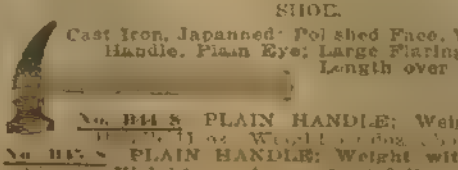


Nos.	B1½	B2	B3
Weight without Handle, oz.	16	12	7
Length over all, in.	13	12	-
Weight per doz. about, lbs.	18	14	
Per dozen	$8.00	7.50	7.00

One half doz. in a Cardboard Box; Six doz. in a Case.

SHOE.

Cast Iron, Japanned; Polished Face, With Hardwood Handle. Plain Eye; Large Flaring Bell Face. Length over all 9 in.



Per Dozen

No. B14 S PLAIN HANDLE; Weight without Handle 11 oz. Weight per doz. about 21 lbs. $2.10

No. B15 S PLAIN HANDLE; Weight without Handle 7 oz. Weight per dozen about 8 lbs. 2.00

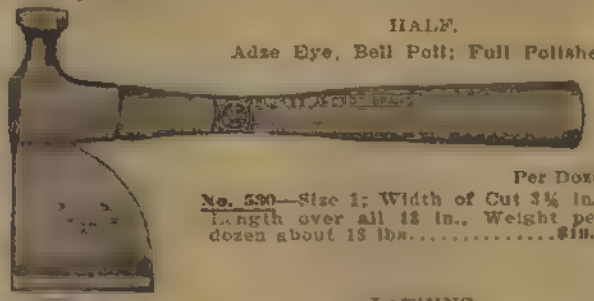
One-half Dozen in a Cardboard Box.

F. R. PLUMB BRAND.

Forged from High Grade Crucible Steel; Polished Eye, Tempered Bit and Poll; Handled with High Grade White Hickory Handles.

HALF.

Adze Eye, Bell Poll; Full Polished.

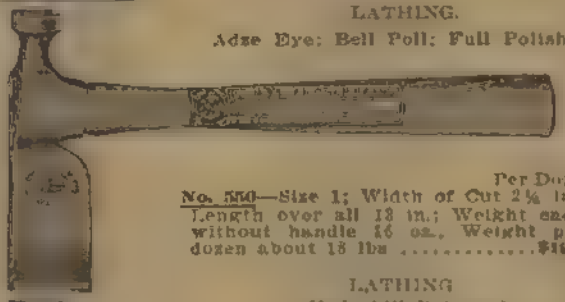


Per Dozen

No. 530—Size 1; Width of Cut 3¼ in.; Length over all 13 in., Weight per dozen about 18 lbs. $19.00

LATHING.

Adze Eye; Bell Poll; Full Polished.



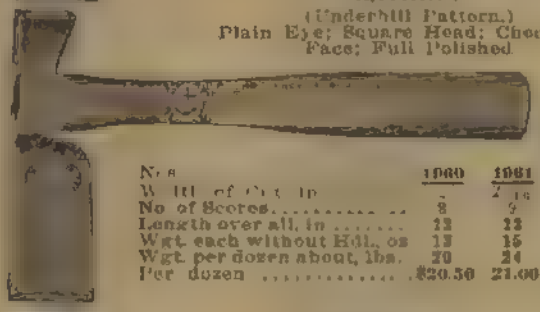
Per Dozen

No. 550—Size 1; Width of Cut 2⅛ in.; Length over all 13 in.; Weight each without handle 16 oz., Weight per dozen about 18 lbs. $19.50

LATHING

(Underhill Pattern.)

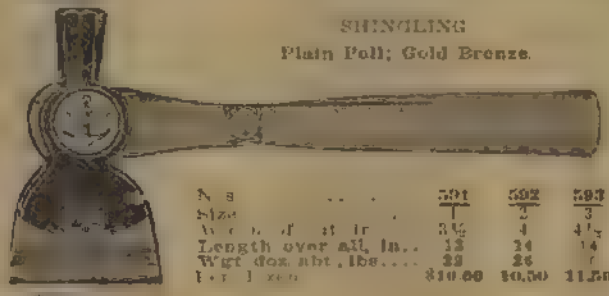
Plain Eye; Square Head; Checkered Face; Full Polished



Nos	1960	1961	1962
Width of Cut, in	2	2 1/16	2¼
No. of Scores	8	9	10
Length over all, in	13	13	13
Wgt. each without Hdl., oz	13	15	16
Wgt. per dozen about, lbs.	20	24	24
Per dozen	$20.50	21.00	22.50

SHINGLING

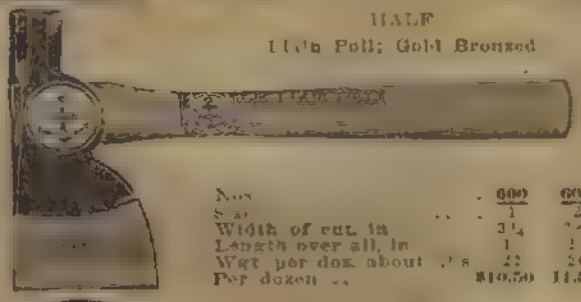
Plain Poll; Gold Bronze.



Nos	591	592	593
Size	1	2	3
Width of cut, in	3½	4	4½
Length over all, in	13	14	14
Wgt. doz. abt., lbs.	22	26	[illegible]
Per dozen	$10.00	10.50	11.50

HALF

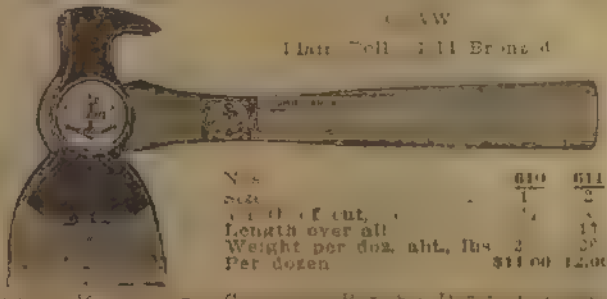
Plain Poll; Gold Bronzed



Nos	600	601
Size	1	2
Width of cut, in	3¼	[illegible]
Length over all, in	1[illegible]	14
Wgt. per doz. about, lbs	22	26
Per dozen	$10.50	11.50

[illegible] AW

Plain Poll; Gold Bronzed



Nos	610	611
Size	1	2
Width of cut, [illegible]	[illegible]	[illegible]
Length over all	[illegible]	14
Weight per doz. abt., lbs	[illegible]	[illegible]
Per dozen	$11.00	12.00

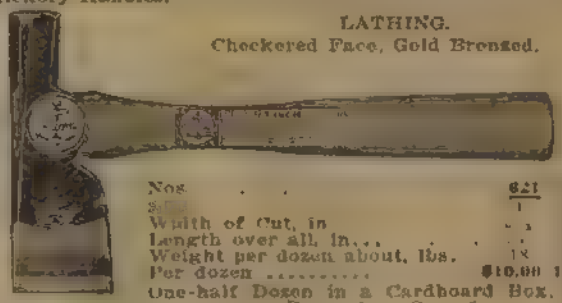
[illegible] Box, Six Dozen in a Case.

F. R. PLUMB BRAND.

Forged from High Grade Crucible Steel; Polished Eye; Tempered Bit and Poll, Handled with High Grade White Hickory Handles.

LATHING.

Checkered Face, Gold Bronzed.

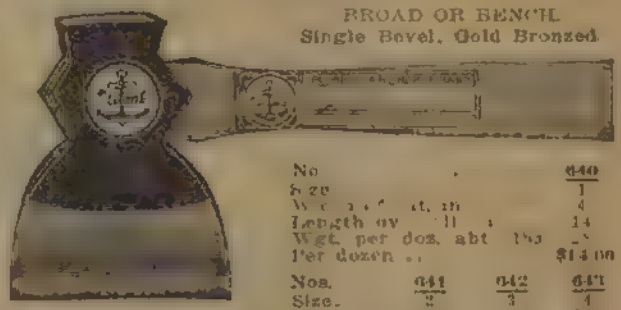


Nos	621	622
Size	1	2
Width of Cut, in	[illegible]	[illegible]
Length over all, in	[illegible]	14
Weight per dozen about, lbs.	18	21
Per dozen	$10.00	10.50

One-half Dozen in a Cardboard Box, Six Dozen in a Case.

BROAD OR BENCH

Single Bevel, Gold Bronzed.



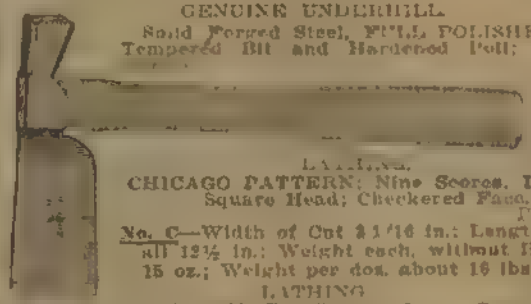
Nos	640
Size	1
Width of cut, in	4
Length over all, in	14
Wgt. per doz. abt. lbs	[illegible]
Per dozen	$14.00

Nos.	641	642	643
Size.	2	3	4
Width of cut, in	4[illegible]	[illegible]	5[illegible]
Length over all, in	14½	15½	16
Weight per dozen about	[illegible]	[illegible]	34
Per dozen	$15.00	16.50	18.50

One-half Doz. in a Cardboard Box, Three Doz. in a Case

GENUINE UNDERHILL

Solid Forged Steel, FULL POLISHED with Tempered Bit and Hardened Poll; Hickory [illegible]



CHICAGO PATTERN; Nine Scores, Large Square Head; Checkered Face.

Per Dozen

No. C—Width of Cut 2 1/16 in.; Length over all 12½ in.; Weight each, without Handle, 15 oz.; Weight per doz. about 16 lbs. ... $37.50

LATHING

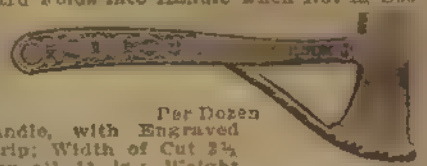
ST. LOUIS PATTERN; Ten Scores, Large Square Head. Checkered [illegible]

No. SL—Width of Cut 2¼ in.; Length over all 12¾ in.; Weight each, without Handle, 16 oz.; Weight per doz. about 18 lbs. $48.00

One-half Dozen in a Cardboard Box, Two Dozen in a Case

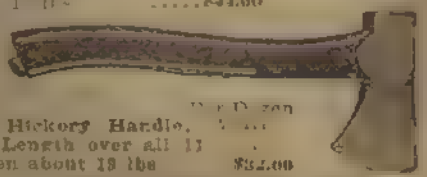
MARBLE'S PATENT SAFETY SPORTSMAN'S

Solid Crucible Steel Blade, Tempered and Polished, with Steel Guard, Lined with Lead, Fastened to Handle with Spring Hinge, Guard Folds into Handle when Not in Use



Per Dozen

No. M2—Steel Handle, with Engraved Hard Rubber Grip; Width of Cut 2¼, Length over all 11 in.; Weight [illegible] $41.00

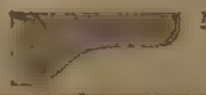


Per Dozen

No. M4—Selected Hickory Handle, [illegible] of Cut 2¼ in.; Length over all 11 [illegible] Weight per dozen about 18 lbs $32.00

One-sixth doz. in a Cardboard Box, One Doz. in [illegible]

HATCHET SHEATHS.



Per Dozen

No. S 2—BROWN CANVAS; Leather Trimmed; for Hatchets Nos. M2, [illegible] 4½ in.; Length [illegible] Packed Loose

KEEN KUTTER Nail Hammers are Packed in Individual Cartons. This method of Packing Protects the Finish and makes a Convenient Retailers' Package.

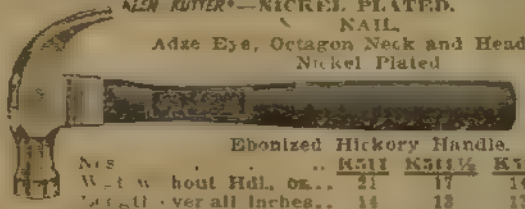
HANDLED HAMMERS.

Drop Forged from One Solid Piece of Highest Grade Crucible Steel; Hardened Face; Tempered Claws; Thoroughly Tested; Bastard Cut Handle, FASTENED WITH OUR SIMMONS' PATENT WEDGE.

KEEN KUTTER—NICKEL PLATED.

NAIL.

Adze Eye, Octagon Neck and Head; Full Nickel Plated



Ebonized Hickory Handle.

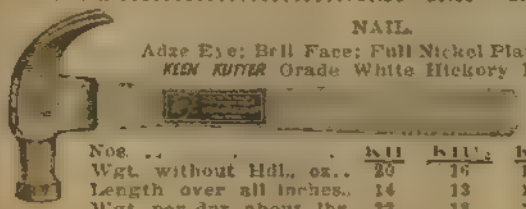
Nos.	K511	K511½	K512	K513
Wgt. without Hdl., oz..	21	17	14	8
Length over all inches..	14	13	13	12
Weight per dozen about, lbs.....	22	18	15	10
Per dozen	$18.00	17.50	17.00	16.50

With *KEEN KUTTER* Grade White Hickory Handle.

Nos.	K510	K510½	K512	K513
Weight without Handle, oz.....	21	17	14	8
Length over all, inches.....	14	13	13	12
Weight per dozen about, lbs.....	22	18	15	10
Per dozen	$17.50	17.00	17.50	16.00

NAIL.

Adze Eye; Bell Face; Full Nickel Plated; With *KEEN KUTTER* Grade White Hickory Handle.

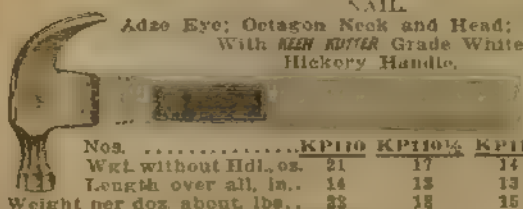


Nos. ..	K11	K11½	K12	K13
Wgt. without Hdl., oz..	20	16	13	7
Length over all inches..	14	13	13	12
Wgt. per doz. about, lbs.	22	18	15	10
Per dozen	$16.00	15.00	14.50	14.00

KEEN KUTTER—POLISHED.

NAIL.

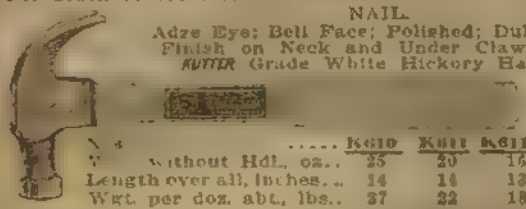
Adze Eye; Octagon Neck and Head; Polished; With *KEEN KUTTER* Grade White Hickory Handle.



Nos.	KP110	KP110½	KP112	KP113
Wgt. without Hdl., oz.	21	17	14	8
Length over all, in..	14	13	13	12
Weight per doz. about, lbs..	22	18	15	10
Per dozen	$14.50	13.50	13.50	13.00

NAIL.

Adze Eye; Bell Face; Polished; Dull Black Finish on Neck and Under Claws; *KEEN KUTTER* Grade White Hickory Handle.

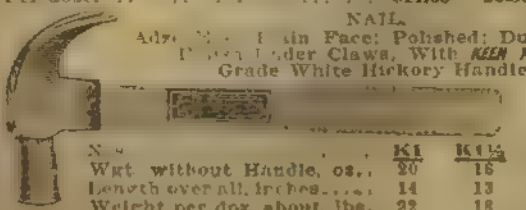


No.	K610	K611	K611½	K612
Wgt. without Hdl., oz..	25	20	16	13
Length over all, inches..	14	14	13	13
Wgt. per doz. abt., lbs..	37	32	18	15
Per dozen	$13.00	12.00	11.50	11.00

Nos.	K612½	K613	K614
Weight without Handle, oz.....	10	7	5
Length over all, inches.....	12½	12	11
Weight per dozen about, lbs.....	12	10	7
Per dozen	$11.00	10.50	10.50

NAIL.

Adze Eye; Bell Face; Polished; Dull Black Finish Under Claws, With *KEEN KUTTER* Grade White Hickory Handle



Nos.	K1	K1½	K2	K3
Wgt. without Handle, oz..	20	16	13	7
Length over all, inches.....	14	13	13	12
Weight per doz. about, lbs.	22	18	15	10
Per dozen	$11.50	11.00	10.50	10.00

One in a Carton; Protects the Finish and makes a Convenient Retailers' Package

One-half doz. in a Cardboard Box, Six doz. in a Case.

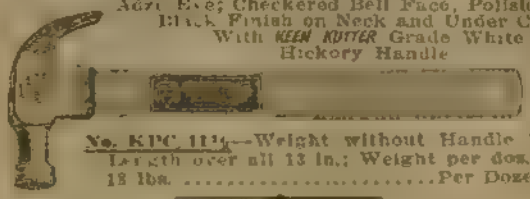
HANDLED HAMMERS.

Drop Forged from One Solid Piece of Highest Grade Crucible Steel; Hardened Face, Tempered Claws, Thoroughly Tested; Bastard Cut Handle, FASTENED WITH OUR SIMMONS' PATENT WEDGE.

KEEN KUTTER—POLISHED.

NAIL, (OR BOX).

Adze Eye; Checkered Bell Face, Polished Dull Black Finish on Neck and Under Claw; With *KEEN KUTTER* Grade White Hickory Handle

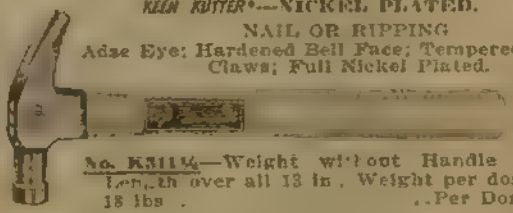


No. KPC 11½—Weight without Handle 16 oz.; Length over all 13 in.; Weight per doz. about 18 lbs. .....Per Dozen, $13.50

KEEN KUTTER—NICKEL PLATED.

NAIL OR RIPPING

Adze Eye; Hardened Bell Face; Tempered Straight Claws; Full Nickel Plated.

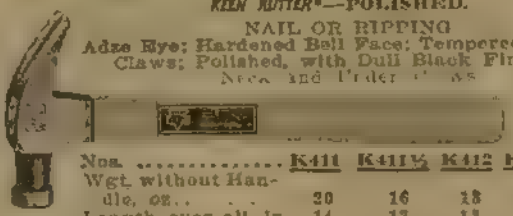


No. K511½—Weight without Handle 16 oz., Length over all 13 in., Weight per doz. about 18 lbs. ..Per Dozen, $15.50

KEEN KUTTER—POLISHED.

NAIL OR RIPPING

Adze Eye; Hardened Bell Face; Tempered Straight Claws; Polished, with Dull Black Finish on Neck and Under Claws



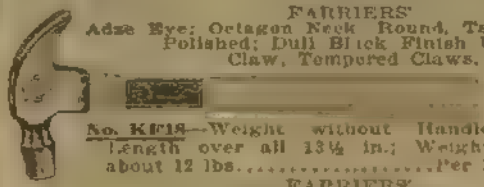
Nos.	K411	K411½	K412	K413	K414
Wgt. without Handle, oz..	20	16	13	7	5
Length over all, in.	14	13	13	13	11
Weight per doz. about, lbs.	22	20	15	10	7
Per dozen	$11.50	11.00	10.50	10.00	10.00

One in a Carton; Protects the Finish and Makes a Convenient Retailers' Package

One-half doz. in a Cardboard Box; Six doz. in a Case.

FARRIERS'

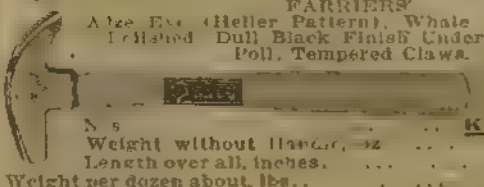
Adze Eye; Octagon Neck Round, Tapering Poll; Polished; Dull Black Finish Under Claw, Tempered Claws.



No. KF18—Weight without Handle 10 oz., Length over all 13½ in.; Weight per doz. about 12 lbs.....Per Dozen, $14.00

FARRIERS'

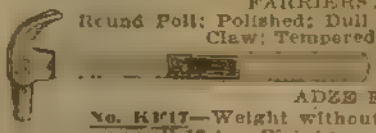
Adze Eye (Heller Pattern), Whale Back Claws, Polished Dull Black Finish Under Claw and Poll, Tempered Claws.



Nos.	KF110	KF112
Weight without Handle, oz ...	10	12
Length over all, inches. ...	13	13
Weight per dozen about, lbs..	13	[illegible]
Per dozen	$11.00	12.00

FARRIERS'.

Round Poll; Polished; Dull Black Finish Under Claw; Tempered Claws.



ADZE EYE. Per Dozen

No. KF17—Weight without Handle 7 oz., Length over all 13 in.; Weight per doz. about 10 lbs $9.00

PLAIN EYE

No. KF16—Weight without Handle 7 oz.; Length over all 12½ in.; Weight per dozen about 9 lbs.....$8.80

One-half doz. in a Cardboard Box; Six doz. in a Case.

On *KEEN KUTTER* Hammers we institute Seven Careful Measured Tests which demonstrate and enable us to Guarantee the proper hardness of the Striking Faces; the proper temper and slitting of the Claws and the proper Hardening of the Edges of the Claws, [illegible] a nail firmly. They are automatically tempered, producing even heats, and the temper is drawn by a thermometer, insuring absolute uniformity.

POCKET COMPASSES.

SHORT AND MASON.

BRASS, Open Face, Metal Dial, with RAISED FULL DIVISIONS, BAR NEEDLE with Agate Cap and Stop.

No. 1721 50—2 IN.; Weight per [illegible] Full [illegible] Lbs Per Doz., $32.00

Agate Center and Divisions, with STOP.

Per Dozen

No. 1601—1¾ IN.; NICKEL PLATED WITH COVER. Weight [illegible] dozen about 1¼ lbs.....$31.00

BRASS with SILVER COVER Metal Dial, Agate Center, Full Divisions with Stop.

Per Dozen

No. 1705 45—1¾ IN. Weight per dozen about 1½ lbs. . $20.50

BRASS WITH COVER Metal Dial.

Per Dozen

No. 1402—1¾ IN. Weight per dozen about 1 lb..... $14.50

One Dozen in a [illegible] Box

BRASS WITH COVER, Beveled Glass, Card Dial.

Per Dozen

No. 8017—1¾ IN.; Weight per dozen about 12 oz.....$6.00

One-half Dozen in a Cardboard Box

POCKET COMPASSES.

BRASS, WITH COVER; Card Dial, Plain Glass.

Per Dozen

No. 112—1⅛ IN.; Weight per Dozen [illegible] ozs. $3.00

No. 134—1¾ IN. Weight per Dozen [illegible] $4.00

NICKEL PLATED OPEN FACE, ENGLISH HUNTING CASE, Metal Dial, Whole Divisions, ENGLISH BAR NEEDLE with Agate Cap and AUTOMATIC STOP.

No. 1820 1¾ IN.; Weight per dozen about 2 lbs. Per Doz. $66.00

SHORT AND MASON.

Secret Spring, Nickel Plated silvered Metal Dial, Best Hardened and Tempered Edge Bar Needle, with Jewel Cap and Self-acting Stop.

Per Dozen

No. 2022 1¾ IN. Weight per dozen abt. 1 lb. $54.00

No. 2022 1¾—1¾ in Hunter Case. Weight per Doz. about [illegible] lbs $58.50

One Dozen in a Paper Box

NICKEL PLATED, HINGE COVER, Agate Center and Divisions, WITH STOP.

No. 839—1¾ IN.; Weight per Dozen 1 lb.

Per Dozen...$40.00

One Dozen in a Cardboard Box

NICKEL PLATED OPENING [illegible] SECRET SPRING [illegible] Metal Dial with Raised Full Divisions, Jewelled Needle with Stop.

No. 1777/47—1¾ IN. Weight per dozen about 1½ lbs Per Doz., $20.50

One-half Dozen in a Cardboard Box

POCKET COMPASSES.

BRASS, Open Face, Metal Dial, Agate Center, Full Divisions, with Stop and Ring

Per Dozen

No. 1702 40 1¼ IN Weight per Dozen about 12 ozs. Per Box . . $10.00

In Dozen lots in a Cardboard Box

NICKEL PLATED, OPEN FACE Watch Shape; Enamaled Card Dial

No. 150 45 — 1¾ IN Weight per Dozen 10 ozs. Per Dozen, $8.00

One Dozen in a Cardboard Box

POLISHED GUN METAL FINISH Open Face Watch Shape; Enamaled Card Dial

No. 101 50 1¾ IN Weight Per Dozen 6 ozs Per Doz $7.00

NICKEL PLATED OPEN FACE, Watch Shape; Enameled Card Dial.

No. 1773 35—1¾ IN Weight per Dozen 4 ozs Per Dozen $5.20

BRASS, OPEN FACE, Beveled Glass, Card Dial

No. 6810 1¼ IN. Weight per Dozen 8 ozs Per Dozen $4.50

One-half Dozen in a Cardboard Box

SATISFACTION

We buy more goods than any other Hardware concern in the world
We [illegible] assortment [illegible] Hardware [illegible] in the world
We sell more goods than any other Hardware concern in the world.
We have more customers than any other Hardware concern in the world

Lowest Prices. WHY?
Good Service
Complete satisfaction of the old-fashioned kind.
We appreciate your business more than any other house in the world
SEND US YOUR MAIL ORDERS.

DUCK CALLS.

COCOBOLO WOOD

No. 91H—Horn Tip; Length 4½ in. Per Dozen $5.50

No. 90—Nickel Plated Tip; Length 4½ in. . . . . Per Dozen, $4.50

One Dozen in a Cardboard Box; Weight per Dozen about 14 ozs.

ALLEN'S PATENT MAPLE.

No. 94—Nickel Plated Metal Tip, Length 6½ in. Per Dozen $8.50

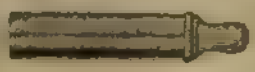
One-half Dozen in a Cardboard Box; Weight per Dozen about 2½ lbs.

LEADER.

No. 92—Hardwood, Hand Made, Rubbed and Polished and Finished in Finest Quality A Perfect Call; Length 6 in... Per Dozen, $28.00

One-sixth Dozen in a Cardboard Box; Weight per Dozen about 2¼ lbs

GOOSE CALLS.



FULLER'S.

No. 93—Metal, Nickel Plated, Length 6 in.; Wood Mouthpiece .....Per Dozen, $23.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 2¼ lbs

SNIPE CALLS.

Per Dozen

No. 77—HORN, Length 3 in....$4.50

One Dozen in a Cardboard Box; Weight per Dozen about 3 ozs.

HUNTERS' HORNS.

Will not Warp or Split from Exposure to Damp Atmosphere. Has a Horn Mouthpiece. Average Length 12 to 14 in.; Diameter of Opening varies according to Length of Horn. Averages about 3 in.

No. HF50—Select Texas Steer Horns, Thoroughly Seasoned, Highly Polished and Finished. Per Dozen, $24.00

Packed Loose; Weight per Dozen about 4½ lbs.

MAGNIFYING GLASSES.

MINERAL LOUPES.

Single, Oval Pattern; Mounted in Hard Black Rubber.

Per Dozen

No. 50—SINGLE 1 IN LENS .....$ 9.00

No. 68—SINGLE 1½ IN LENS.....

One Dozen in a Package; Average Weight per Dozen about 8 ozs.

Double Oval Pattern; Mounted in Hard Black Rubber.

Per Dozen

No. 57—DOUBLE LENSES, One Each, ⅞ and 1 in . . $14.00

No. 63—DOUBLE LENSES; One Each, 1⅛ and 1½ in.... $16.00

No. 75—DOUBLE LENSES; One Each, 1½ and 1⅝ in.... $26.00

One-half Dozen in a Package; Average Weight per Dozen about 16 ozs

POCKET COMPASSES.

WOOD BOX WITH HINGED COVER and AUTOMATIC STOP. Agate Cap, Metal Dial, with RAISED FULL DIVISIONS, BAR NEEDLE.

Per Dozen

No. 1753 75—2¾ IN. Weight per dozen about 3 lbs.....$40.00

One Dozen in a Package.

WOOD BOX WITH HINGED COVER, Metal Dial, Agate Center, Full Divisions, Plain Needle, Automatic Stop.

Per Dozen

No. 1754 75—2¾ IN.; Weight per dozen about 2¾ lbs....$24.00

One Dozen in a Package.

NICKEL PLATED, with Nickel Plated Slip Cover, Metal Dial, Agate Center, Full Divisions, with Stop

Per Dozen

No. 1727N 50—2 IN.; Weight per dozen about 2 lbs.....$42.00

SHORT AND MASON.

Pull-off Cover, Silvered Metal Dial, Best Hardened Tempered Edge Bar Needle, with Jewel Cap and Stop, Beveled Glass

No. 2903 J.

Per Dozen

No. 2903 1½—1½ in. Stout Brass Box, Weight per dozen about 1 lb....$34.20

No. 2903 2—2 in. Stout Brass Box, Weight per dozen about 1½ lbs. 39.80

One Dozen in a Cardboard Box.

BRASS, with Brass Slip Cover, BLACK METAL DIAL, Agate Center, RAISED DIVISIONS AND STOP

Per Dozen

No. 1728B 50—2 IN. Weight per dozen about 2 lbs.....$30.00

One-half Dozen in a Cardboard Box.

Rd. MELHUISH, Ltd., Fetter Lane, Holborn Circus, London, E.C.

Linen Testers.

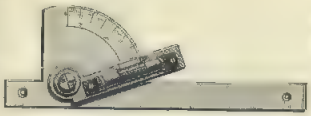
No. 2019. No. 2020.

Achromatic.

	Brass.	Nickelled.	Brass.	Nickelled.	
¾ in. square	-/9	1/1	1/6	1/9	each.
1 × ½ in	1/1	1/6	1/10	2/6	,,
1 × 1½ ,,	3,-	3/6	4 6	6/6	,,
1½ in. square	2/-	2/6	3 -	4/-	,,
1 ,, ,,	4 6	6,6	6/6	8/6	,,

Levels.

No. 2021.



Slope Level, 5½ in. Pivoted Spirit Level, Silvered Division Level, in Box . . 20/6

Octagonal Cross Staff Heads.

No. 2022.

Lacquered Brass.

Height.	No Compass.	With Compass
2½ in.	4/9	9/3
2⅝ ,,	5/3	10/-
3 ,,	6/-	11/-
3⅜ ,,	6/9	12 -

Pedometers.

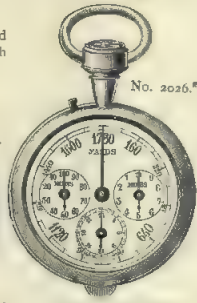
These Instruments record the distance covered with great accuracy.

No. 2023.
1 Hand registering ¼ mile to 12 miles.
Nickel, 9/3
Oxydized, 10,6 each

No. 2024.
2 Hands registering to 100 miles.
Nickel, 9 9
Oxydized, 11 - each

No. 2023

No. 2025.



No. 2026.

No. 2026.
4 Hands registering 80 yards to 100 miles, with Compass and Map Measurer.
Nickel, 14 6

No. 2025.
1 Hand registering ¼ to 12 miles.
Oxydized, 11 6

No 2027.
2 Hands registering ¼ to 100 miles.
Oxydized, 12/9 each.

Watch Form Pocket Compasses.

		Size	1⅜	1¾	2	2½ in.
No. 2029.	Brass Silvered Divided Dial, Stop Agate Cap...		3/6	4/-	4/3	4/6
,, 2030.	As above, Nickel-plated		4/6	5/-	5,3	5/6
,, 2031.	As illustrated, Divided Circle, Bar Needle, Agate Cap, Nickel-plated		5/3	6/-	6,6	7 -

No 2028

Map Measure Dial registering miles and kilometres.
Metal Handle, 3/3
Bone Handle, 3/9
Ivory Handle, 4 6 each.

Hunter Form, Bronze Case. Diameter, 1⅜ in.
Price, 7/6

No. 2031½

Bronze Medal, 1884.—Gold Medal, 1890.

GYMNASIUM AND ATHLETIC GOODS.

GYMNASIUM SHOES.

ROYAL.

Turned Welt, Kangaroo Calf Uppers, Regulation Tongue and Back Stay.

Per Pair

No. 630 FLEXIBLE WHITE Elastic OUTSOLE; Light Wedge Heel Balls; Sizes, 6, 6½, 7, 7½, 8, 8½, 9, 10.....$5.00

No. 640 SOFT FLEXIBLE OUTSOLE, Oxfords, Sizes 5, 5½, 6, 6½, 7, 7½, 8, 8½.....3.50

One Pair in a Cardboard Box; Weight per Pair about 16 ozs.

RUNNING SHOES.

Sizes: 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 10.

Per Pair

No. R35—ROYAL KID-CALF; Highest Quality Genuine Kangaroo Calf, Glove Fitting; Very Light, Hand Made, with ⅜ in. Spikes.....$7.00

No. R36—ROYAL; Fine Kangaroo Calf, Glove Fitting; Very Light; Hand Made, with ⅜ in. Spikes.....5.50

Weight per Pair about 16 ozs.

TENNIS SHOES.

Men's Sizes: 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.

Roughened Black Rubber Soles.

No. 1 OXFORD; White Duck; BEST QUALITY MADE; MEN'S SIZES. Weight per pair about 1½ lbs.....Per Pair, $2.00

One Pair in a Cardboard Box

Men's Sizes: 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.

Roughened Black Rubber Soles.

No. 11—HIGH CUT; White Duck; BEST QUALITY MADE; MEN'S SIZES. Weight per pair about 1¾ lbs.....Per Pair, $2.20

One Pair in a Cardboard Box

CHAMOIS PUSHERS.

Sizes: 6, 7, 8, 9 and 10.

No. CP—Chamois Pushers, Weight per pair about 1 oz.....Per Pair, $0.60

Fine Chamois Skin, and used with Running, Walking, Jumping and other Athletic Shoes. They Protect the Feet and prevent blistering. Also used to make Shoes Fit more snugly. Worn with long part over instep.

Packed Loose.

RUNNING CORKS.

Per Pair

No. RC—Running Corks, Weight per pair about 1 oz..$0.40

Will Fit Perfectly the Hollow of the Heel, Adding Height to the Pedestrian. Also for Running and Jumping.

HORIZONTAL BARS.

PLAIN HICKORY.

Hand Made, of Selected Second Growth Hickory.

		Each
No. 1161	4 ft. Long; Weight each about 2¾ lbs.	$1.60
No. 1171	4½ ft. Long; Weight each about 3 lbs.	1.80
No. 1181	5 ft. Long; Weight each about 3½ lbs.	2.00
No. 1191	5½ ft. Long; Weight each about 3¾ lbs.	2.20
No. 1201	6 ft. Long; Weight each about 4 lbs.	2.40
No. 1211	6½ ft. Long; Weight each about 4¼ lbs.	2.70

Packed Loose.

POLICE GOODS.

HANDCUFFS.

TOWER'S

Double Lock, Adjustable.

Per Pair

No. 4—POLISHED STEEL.....$8.40

No. 4N—NICKEL PLATED.....7.00

TOWER'S DETECTIVE

Self-Locking, Adjustable.

Per Pair

No. 7—POLISHED STEEL.....$6.40

No. 6—NICKEL PLATED STEEL.....5.00

BEAN'S PRISON.

New Style, with Improved Detachable Locks.

Can be Interlocked from either side, and Locks Removed for Repairs when open. Cannot be taken out when Closed. Has a Double Swivel Link and Set Locks, which cannot be locked by accident.

Per Pair

No. 2—POLISHED STEEL.....$7.00

No. 2N—NICKEL PLATED.....5.50

One Pair in a Cardboard Box; Weight per Pair about 12 ozs.

NIPPERS.

Handles Interlock alike from either Side; 8 in. Chain.

No. TC—TOWER'S CHAIN; NICKEL PLATED; Weight per dozen about 3 lbs.....Per Dozen, $15.50

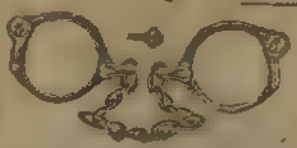
One Dozen in a Cardboard Box.

NICKEL PLATED.

No. PP—PHILLIPS' PATENT; MALLEABLE STEEL; with Side Spring; Weight per dozen about 4¼ lbs.....Per Dozen, $10.20

One Dozen in a Cardboard Box.

LEG IRONS.



Per Pair

No. B—BEAN'S POLISHED STEEL; Double Lock with Key, Adjustable; 11 in. Chain; Weight per pair about 2 lbs.....$3.00

No. T—TOWER'S POLISHED STEEL, Double Lock with Key, Adjustable; 11 in. Chain; Weight per pair about 2¾ lbs. Per Pair $10.20

One Pair in a Cardboard Box.

POLICE BILLIES.

SHOT FILLED.

Per Dozen

No. 4—Good Quality Russet Leather 8½ in. Long, Strap; Weight per dozen about 2¾ lbs.....$3.00

No. 5—Good Quality Black Leather 9 in. Long, Strap; 3½ in., Weight per dozen about 3¾ lbs.....3.60

POLICE CLUBS.

BEAN'S SOLE LEATHER.

Nos.	6	7	8	9
Length, inches	9	10	12	14
Weight each, ozs.	14	15	16	17
Each	$2.60	3.00	3.40	3.80

Per Dozen in a Cardboard Box

SLUNG SHOTS.

Per Dozen

No. 10—Good Quality Russet Leather Hand Made Slung Shot; Sand Filled; Weight per Dozen about 6 lbs.....$6.00

Packed Loose.

KNUCKS.

ROYAL.

Per Dozen

No. 1—CAST IRON, BRONZE PLATED; Weight per dozen about 3½ lbs.....$1.20

No. 2—CAST IRON, NICKEL PLATED; Weight per dozen about 3½ lbs.....1.20

No. 3—ALUMINUM, POLISHED; Weight per dozen about 1¾ lbs.....$3.00

Per Dozen in a Cardboard Box

WATER WINGS.

AYVADR

Ayvadr Water Wings are a Perfect Life Preserver which [illegible] With them you can Swim or Float. They are a great help [illegible] Made of Porous Muslin Cloth, Web Bound with All wool just enough Air to escape to adjust [illegible] to the Size of the Body to be Floated. To Inflate, Wet thoroughly, then Blow up with Mouth by means of Valve. Size of Each Wing 9x12 in. Pressure of Water holds Wings to Body.

Per Dozen.

No. 1—PLAIN WHITE; Medium Quality.....$5.00

No. 2—ASSORTED COLORS; Best Quality and Finish 6.50

One Dozen in a Package. Weight per dozen about 2 lbs

ANKLE SUPPORTERS.

NATHAN'S Ventilating Corset Ankle Support. Soft Tan Leather. Just the thing for all Athletic Sports, as well as for all who have Weak Ankles

Per Dozen Pairs

No. 4M—MEN'S SIZES, Assorted. 4, 5, 6, 7, 8, 9, 10 and 11; Weight per dozen about 3 lbs.....$17.00

No. 4L—FOR LADIES; Sizes Assorted, 1, 2, 3, 4, 5 and 6; Weight per dozen about 2¼ lbs.....$17.00

One-half Dozen Pairs in a Cardboard Box

PLAIN SOFT BLACK LEATHER

Per Dozen Pairs

No. 3M—MEN'S SIZES, Assorted. 5, 6, 7, 8, 9, 10 and 11; Weight per dozen about 1 lb $8.50

One-twelfth Dozen Pairs in a Carton; One Dozen Pairs in a Cardboard Box.

WRIST SUPPORTERS.

A Simple, but very Practical little invention for Field Sportsmen; it being a Perfect Support and Protection to the Wrist. Is especially valuable to Base Ball, Tennis, Cricket and Lacrosse Players; Hand Ball Players will also find it of great value. In fact, any game where the strain is on the wrist.

Per Dozen

No. 100—BLACK DOMESTIC GRAIN LEATHER.....$2.00

No. 200—TAN COLOR; CHAMOIS LINED..... 2.50

Packed Loose; Weight per dozen about ¾ lb

SATISFACTION

We buy more goods than any other Hardware concern in the world

We carry a larger assortment than any other Hardware concern in the world.

We sell more goods than any other Hardware concern in the world.

We have more customers than any other Hardware concern in the world.

WHY?

Lowest Prices

Good Service.

Complete satisfaction of the old-fashioned kind

We appreciate your business more than any house in the world.

SEND US YOUR MAIL ORDERS

SUPPORTERS.

Showing Athletic Supporter

TAKE SNUG MEASURE SIX INCHES BELOW WAIST

Size 0	fits a 30-31 in. measure.
Size 1	fits a 32-33 in. measure.
Size 2	fits a 34-35 in. measure.
Size 3	fits a 36-37 in. measure
Size 4	fits a 38-39 in. measure
Size 5	fits a 40-41 in. measure.

PFISTER'S PATENT, Very Durable; Will Not Displace, Easily Adjusted and Washed; ¾ Worsted, ¼ Elastic; No Buckles or Lacing. Unrivaled for Comfort, Neatness and Coolness; Colors, Black and White.

No. 8—PFISTER'S ATHLETIC; Sizes 0 to 5; Weight per dozen about 4 lbs.....Per Dozen, $17.00

Loose, or One Dozen Assorted Sizes in a Box

PHILADELPHIA JOCK SUPPORTER

Made of all Elastic Web. Fits Comfortably, Light in Weight, and Adjusts itself to any position of the Body; Used for Surf Bathing and all forms of Physical Exercise such as Swinging Rings, Trapeze, Rowing, Gymnasium Work and all exercise that requires active movements of the body; Color, White.

Per Dozen

No. 10 S—Small $14.50

No. 10M—Medium 14.50

No. 10L—Large 14.50

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 4 lbs

IDEAL SUPPORTERS.

Sizes, 26, 28, 30, 32, 34, 36, 38 and 40 in.

Made of Best Quality Worsted Elastic Web.

The Ideal Supporter is a Jock Strap and Suspensory Combined, fits snugly and Stays Where it is Put. It prevents its Chafing or Rubbing for Fresh. No Strings or Tapes to tie or Buttons to Sew. Fitted throughout with Glove Fasteners, which can be Slipped in an Instant and Readjusted as quickly without Sliding off the body. For Cleaning the Supporter, use Castile Soap, Warm Water and Brush.

No. 1—IDEAL SUPPORTERS; Weight per dozen about 2 lbs.....Per Dozen, $10.20

MORTON'S SUPPORTERS

Sizes, 26, 28, 30, 32, 34, 36, 38 and 40 in.

No. 6—Used by Base Ball and Tennis Players everywhere; Made of Light Canton Flannel, Laced Front, Cool and Pleasant to Wear; Weight per dozen about 3 lbs.....Per Dozen, $4.50

One-twelfth Dozen in a Cardboard Box

SUSPENSORIES.

THE GENUINE O. P. C. For Comfort and Security this Suspensory has no equal. It has Seamless Back, Side Folds, and so constructed as to absolutely Prevent Chafing, and makes Displacement Impossible. Made in Three Sizes: Small, Medium and Large.

Per Dozen

No. 2/OPC—LISLE THREAD SACK, Elastic Bands Brass Adjusting Buckles.....$ 9.00

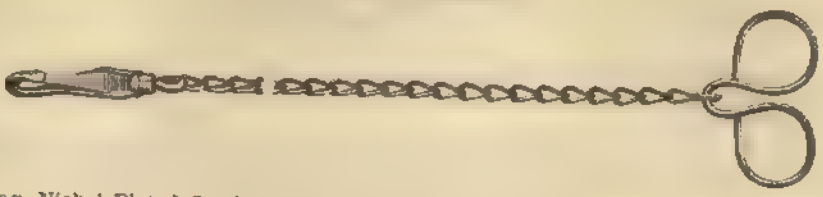
No. 3/OPC—FINE KNITTED SILK SACK, Satin Trimmings Elastic Bands; Steel Adjusted Buckles...$12.00

No. 4/OPC—FINE KNITTED SILK SACK, Satin Trimmings, Silk Elastic Bands; Extra Nicely Made....$13.00

No. 5/OPC—FINELY WOVEN SEAMLESS SILK SACK, Assorted Colors; Satin Trimmings; Elastic Bands and ELASTIC DRAW STRINGS, Brass Adjusting Buckles $14.00

One on a Card in a Handsome Display Box.

DOG LEADS



No. 25–1—72 in. Long, Nickel Plated Steel, Steel Swivel Snap, Wire Handle . . . . Per Dozen .$2 50

One Dozen in a Box

No. 22–1—72 in. Long, Nickel Plated Steel, Steel Swivel Snap, Wire Handle Per Dozen $3 00

One Dozen in a Box

POLICE GOODS

TOWERS' ADJUSTABLE HAND CUFFS

	Per Pair
No. 10—Tower's, Adjustable, Double Lock Forged Steel Shackles, Polished, Weight 18 Oz.	$6 00
No. 11—Same as No. 10, but Nickel Plated	7 00

Works automatically, locking itself securely as it closes on the prisoner, and then by inserting the key and turning it once it becomes a positive lock, bracing the bolt and preventing any further movement of the bow by any possible device until the bracing is released by the key.

BEAN'S PATTERN DETECTIVE HAND CUFFS

	Per Pair
No. 1—Forged Steel Brass Light Weight Connecting Swivel Links, Can be Unlocked from Either Side, Polished, Weight 12 Oz.	$6.00
No. 2—Same as No. 1, but Nickel Plated	7.00

Secure and strong, designed to meet the demand for a very light wrist shackle for officers, detectives and others who need to carry such appliances always with them and find a few ounces saved in the weight a matter of consideration.

TOWER'S PERFECT TWISTERS

	Per Dozen
No. 1—Patent Chain Nippers, Handles Interlock Both Sides Alike, Chain Welded and Nickel Plated, Weight 3 Oz.	$12.00

When in use the handles lie one within the other, closing automatically so as to avoid the play and abrasion of two handles between the fingers.

METAL GLOVES

	Per Dozen
No. 999—Brass Plated, Polished	$2 00
No. 1000—Same as No. 999, but Smaller and not Polished	1.20

PORCELAIN CLOCKS

Made by the Ansonia Clock Co. Most Durable Finish. Floral Decorations

PRICES EACH

LA CHARTRES. $18.35.

Royal bonn porcelain, decorated in rich colors. Eight-day, half-hour cathedral gong strike. Height 11½ inches, width, 11¾ inches. French sash and 5-inch porcelain dial.

LA LAYON $30.00

Royal bonn porcelain, decorated in rich colors. Eight-day, half hour cathedral gong strike. height 14½ inches, width, 15 inches. French sash and 4-inch porcelain dial. Vanid escapement.

LA CHARNY. $18 35.

Royal bonn porcelain, decorated in rich colors. Eight-day, half-hour cathedral gong strike. Height, 14 inches, width 11 inches. French sash and 5-inch porcelain dial.

LA FLANDRE $30.00.

Royal bonn porcelain, decorated in rich colors. Eight-day, half hour cathedral gong strike. Height, 14½ inches, width, 12½ inches. French sash and 5-inch porcelain dial, visible escapement.

LA VENDEE $28.35.

Royal bonn porcelain, decorated in rich colors. Eight-day, half-hour cathedral gong strike. Height, 14½ inches, width, 13 inches. French sash and 5-inch porcelain dial, visible escapement.

LA MINE $26.25.

Royal bonn porcelain, decorated in rich colors. Eight-day, half-hour cathedral gong strike, height, 14½ inches; width, 11¾ inches; French sash and 5-inch porcelain dial, visible escapement.

LA RAMBLA. $15 00.

Royal bonn porcelain, decorated in rich colors. Height, 12 inches, width, 10 inches. Eight-day, half-hour cathedral gong strike. American sash and 5-inch dial.

LA PLATA $26 65

Royal bonn porcelain, decorated in rich colors. Height 14 inches; dial, 5 inches, width, 13 inches. Eight-day, half-hour cathedral gong strike, French sash porcelain dial, visible escapement.

LA FONTAINE. $13 00

Royal bonn porcelain, decorated in rich colors. Eight-day, half-hour cathedral gong strike. height 11 inches, width 9¼ inches, American sash and 5-inch dial

BRONZE CLOCK OR MANTEL FIGURES.

PRICES EACH.

DIANA.
No. 408 Bronze $1.10
Height, 6¾ inches; width, 3¼ inches.

PACER.
No. 200 Bronze $3.75
Height, 6⅝ inches; width, 5⅛ inches.

COMPOSER.
No. 201. Bronze $2.85
Height, 7⅞ inches; width, 6¾ inches.

LA FONTAINE.
No. 205 Bronze $3.35
Height, 6¾ inches; width, 6⅝ inches.

SCOUT.
No. 411 Bronze 65
Height, 7 inches; width, 8 inches.

TAMER.
No. 417 Bronze $3.00
Height, 7 inches; width, 6 inches.

TWO HORSES.
No. 416 Bronze $2.85
Height, 8 inches; width, 6¼ inches.

BONNER.
No. 414 Bronze $2.50
Height, 7⅝ inches; width, 8¼ inches.

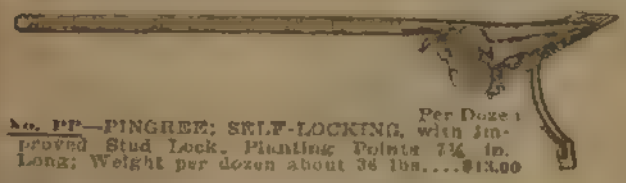
POINTER.
No. 202 Bronze $2.15
Height, 4 inches; width, 7¾ inches.

STAG.
No. 407 Bronze $2.15
Height, 9 inches; width, 5⅝ inches.

DOG.
No. 405 Bronze $1.85
Height, 6 inches; width, 8 inches.

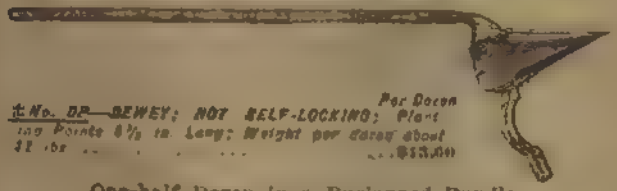
POTATO PLANTER.

Hardwood Handle 29½ in Long, with 4½ in. Malleable Iron Socket; Tapered Steel Planting Points, One Stationary and One Movable; with 8 in. Malleable Iron Actuating Lever; These Planters Make Excavation, Drop Potato and Cover, all in One Operation; Adjustable Depth Gauge; These Planters have a Record of 4 Acres in 10 Hours.



Per Dozen

No. PP—PINGREE; SELF-LOCKING, with Improved Stud Lock. Planting Points 7¼ in. Long; Weight per dozen about 36 lbs.....$13.00



Per Dozen

‡No. DP—DEWEY; NOT SELF-LOCKING; Planting Points 6½ in. Long; Weight per dozen about 32 lbs.....$13.00

One-half Dozen in a Burlapped Bundle.

SEED SOWERS.

Hardwood Base 11 in. Long, 6 in. Wide, with Curved Breast Piece; Wide Tape Shoulder Strap, White Duck Bag Tacked to Base; Capacity about one-half Bushel; Heavy Cast Distributing Wheel 9¼ in. in Diameter, with Five Arms; 8 in. Crank; Adjustable Feed, with Spring Stop; Iron Castings; Hardwood Handles.

OAK LEAF*.

Hardwood Base, Painted Green, Castings Painted Aluminum.

Per Dozen

No. E1 OAK LEAF* Regular Rotary Gear; Large Gear Wheel 8 in. Diameter; Weight per dozen about 54 lbs.....$23.50

SIMMONS RUN EASY*.

Hardwood Base, Painted Red, Castings Japanned.

Per Dozen

No. 6 — SIMMONS RUN EASY*; Spiral Screw Rotary Gear; Ball Bearing Gear Wheel 8 in. Diameter; Weight per dozen about 47 lbs.....$27.00

One-twelfth Dozen in a Cardboard Box; One Dozen in a Crate.

Nos. E1 and 6 Seeders will sow Seed in a radius of about as follows: Wheat, 50 ft.; Rye, 50 ft.; Clover, Flax or Millet, 40 ft.; Grass Seed, 24 to 36 ft.

ADMIRON.

Wide Tape Shoulder Strap, White Duck Bag Laced to Hopper; Hopper 11 in. Wide, 8½ in. Long at Top; Capacity 12 Quarts; Japanned Malleable Iron Castings, Beveled Intermediate Gears; Large Driving Gear, 8 in. in Diameter.

NOTE—Breadth of Cast [illegible] Weight of Seed or Grain, but ordinarily it will be as follows: Wheat or Rye, 50 ft.; Barley [illegible] to 26 to 30 Oats, 24 [illegible] Clover, Millet, Alfalfa [illegible] to 24. Timothy [illegible] 12

Per Dozen

No. 5—Japanned Sheet Steel Tapering Hopper and Breast Plate; Breast Plate 11x10 in.; Stamped Brass Distributing Fingers, with Four Partitions; Front Diameter 5¾ in.; Adjustable Large and Small Feed Gates; Hardwood Handle; Weight per dozen about 90 lbs. $61.00

One-twelfth Dozen in a Carton.

SEED SOWERS.

CYCLONE.

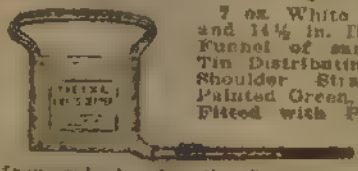
Hardwood Base, Painted Red, 14 in. Long, 6 in. Wide, Curved Side Piece to fit against Body of User; Hardwood Supporting Arm; Malleable Iron Gearing Supported in Steel Frame; No. 20 Gauge Tin Distributing Wheel 10 [illegible] in Diameter, in Four Sections, Securely Riveted together; Adjustable Double Feed, with Stop so that Seed can be Shut off [illegible] Bag Tacked to [illegible] in Red Tape Shoulder Strap; Capacity of Bag ½ Bushel; Crank has Hardwood Handle.

Per Dozen

No. 7—CYCLONE; Regular Rotary Gear; Large Gear Wheel 3½ in. Diameter; Crank 6 in. Long. Weight per dozen about 64 lbs. $22.00

One-half Dozen in a Crate.

NOTE—Breadth of Cast will be in Proportion to Weight of Seed or Grain, but ordinarily it will be as follows: Wheat or Rye, 50 ft.; Barley, 46 ft.; Hemp, 40 ft.; Clover, Alfalfa, Flax and Oats, 36 ft.; Timothy, 27 ft. Grass 15 ft.



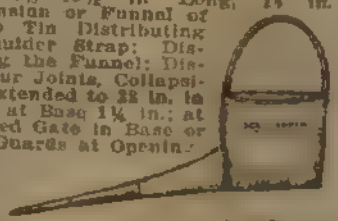
7 oz. White Duck Bag, 17 in. Long and 14½ in. Deep, with Extension or Funnel of same material sewed to Tin Distributing Funnel. Wide Tape Shoulder Strap; One-piece Square, Painted Green, Tin Tube, 29 in. Long, Fitted with Perforation arranged in Alignment in its Opposite Walls, so that as it is swung laterally from side to side the Seeds are forced out through the [illegible] On the Side of the Square Tube is a Wire [illegible] to Regulate the Flow of Seed from 1 Pint to 10 Quarts to the Acre; Grip or Hand Hold on Tube is Provided.

No. 10—Weight per dozen about 10 lbs. Per Dozen, $14.00

One Dozen in a Bundle.

NOTE—Sows Clover, Alfalfa, Seed, etc., 30 ft. to a Throw. Sows Timothy, Lawn Seed, etc., 21 ft. to a Throw.

TIN HORN.



White Duck Bag 15½ in. Long, 14 in. Deep, with 11 in Extension or Funnel of same material, sewed to Tin Distributing [illegible] Wide Tape Shoulder Strap; Distributes Seed by Swinging the Funnel; Distributing Funnel is in Four Joints, Collapsible to 13½ in. or can be extended to 22 in. in Length over all; Diameter at Base 1¾ in.; at End ⅜ in.; Adjustable Feed Gate in Base or Stub Joint; Tinned Wire Guards at Opening. Entire Seeder can be folded into space of about 11 x2½x3 in. and carried readily in the pocket.

Per Dozen

No. 8—TIN HORN; Weight per dozen about 8 lbs.....$9.50

One in a Paper Wrapper; One Dozen in a Crate.

CORN SHELLERS.

SIMMONS*.

Hardwood Varnished Frame; Body Painted Red, Black Striped. Extreme Height, without Table, 42 in. Width at Top 8½ in.; Width on Floor 16¼ in.; Legs 1½x1½ in. Bottom Cross Piece 1¼x2 in.; Diameter of Balance Wheel 26 in. Diameter of Shell Wheel 15 in. Opening of Hopper 5 in.; Length of Crank 13 in. Capacity 8 to 12 Bushels per hour.

Per Dozen

No. F—SIMMONS*; With Fan and Table; Length of Table 21½ in. Depth 3½ in.; Extreme Width 14 in. Fastened to Frame by Two "S" Hooks; Weight each about 130 lbs. $162.00

Packed Loose.

Case Iron, Black Japanned; Can be Fastened to Bin, Box or Barrel by Bolts or by Two Clamps; Chilled Bearings; Height over all 11 in.; Width over all 30½ in.; Adjustable Hopper, Width 3¾ in.; Depth 3 in.; Pressure Regulated by a No. 8 Gauge Wire Coil Spring. Cast Axle with 3 in Bearing; Diameter of Shell Wheel 8 in., Studded with ⅝ in. Teeth; Length of Crank 9 in.

Per Dozen

No. BK—SIMMONS*; Will Shell all Kinds of Field Corn [illegible] Throw of the Cobs. Weight per dozen about [illegible] $32.50

One Dozen in a Barrel.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

TOY GARDEN SETS.

BAY STATE*.

Per Dozen Sets

No. BDD—BAY STATE*; Consisting of THREE PIECES, as follows: SPADE—Cold Rolled Bright Steel Blade, 5⅛x3¾ in.; Plain Hardwood T Handle; Length over all 21 in. HOE—Cold Rolled Bright Steel Blade, 3¾x2¼ in.; Plain Hardwood Handle 24 in. Long. RAKE—Solid Stamped Steel Head, 4¼x1⅝ in.; 6 Teeth; Plain Hardwood Handle 24 in. Long. Weight per dozen sets about 13 lbs. $3.20

Per Dozen Sets

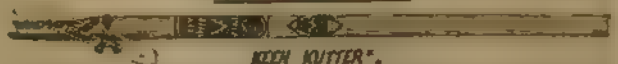
No. BDB—BAY STATE*; Consisting of THREE PIECES as follows: SPADE—Cold Rolled Steel Blade, 5⅛x3¾ in.; Plain Hardwood Handle; Length over all 20½ in. HOE—Cold Rolled Bright Steel Blade 3¾x2¼ in.; Plain Hardwood Handle 20 in. Long. RAKE—Solid Stamped Steel Head 4¼x1⅝ in.; 6 Teeth Plain Hardwood Handle 20 in. Long; Weight per dozen sets about 10 lbs. $2.00

Per Dozen Sets

No. BAA — BAY STATE*; Consisting of THREE PIECES, as follows: SPADE—Cold Rolled Steel Blade 3⅛x3 in.; Plain Hardwood Handle; Length over all 20 in. HOE—Cold Rolled Bright Steel Blade, 3¾x2¼ in.; Plain Hardwood Handle 20 in. Long. RAKE—Malleable Iron Head, 3⅜x1¼ in.; 5 Teeth; Plain Hardwood Handle 20 in. Long; Weight per dozen sets about 9 lbs. $2.40

One-half Dozen Sets in a Bundle.

LAWN SPUDS.



KEEN KUTTER*.

Highest Grade Crucible Steel Tempered Polished Blade; Extra Select Second Growth Straight Grained Ash Handle, Smoothly Belted and Waxed.

Per Dozen

No. K36—KEEN KUTTER* Reversible Blade, 6½ in. Long, 1¼ in. Wide; Beveled Cutting Edges are Straight on One End, Concave on the Other; Malleable Iron Wing Nut for Adjusting Blade; Length of Handle 41 in.; Weight per dozen about 13 lbs. $3.20

Dished Steel Blade; Polished, Belted Hardwood Handle.

Per Dozen

No. 38—Reversible, with Adjusting Nut; Blade 7 in. Long, 1¾ in. Wide, with Beveled Cutting Edges, Straight on One End, Concave on the Other; Handle 44½ in. Long; Weight per dozen about 12 lbs. $3.20

One Dozen in a Bundle.

THISTLE AND DOCK CUTTERS.

KEEN KUTTER*.

Highest Grade Crucible Steel Tempered Polished Blade, with Sharpened Edge; Black Lacquered Steel Ferrule and Malleable Iron T-Step; Extra Select Second Growth Straight Grained Ash Handle, Smoothly Belted and Waxed

Per Dozen

No. K39—KEEN KUTTER*; Blade 1⅞ in. Wide, 8 in. Long; Step 2¾ in. Long on Each Side. Length of Handle 43 in.; Weight per dozen about 36 lbs. $12.50

Per Dozen

No. 39—Polished Steel Blade 8 in. Long 2 in. Wide; Steel Socket and T-Step 4½ in. Long. Belted Hardwood Handle 44 in. Long; Weight per dozen about 36 lbs. $16.50

One Dozen in a Bundle.

LAWN WEEDERS AND ASPARAGUS KNIVES.

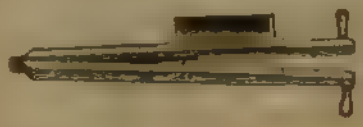
Per Dozen

No. 1CAK—KEEN KUTTER*; Highest Grade Crucible Steel, Highly Polished Blade, 17 Gauge, 7⅜ in. Long; 1¾ in. Wide at Point; Blade Fastened by Two Rivets in Highly Polished Hardwood Handle 5 inches Long; Points Rounded ⅜ in. and have Double Bevel Cutting Edge Giving a Clean and Smooth Cut; Weight per dozen about 6 lbs. $5.30

One-half Dozen in a Cardboard Box.

CORN PLANTERS.

Varnished Hardwood Uprights, with Bolted Wood Grip Handles, Japanned Sheet Steel Covered Hopper and Automatic Feed.



Two Hand; Length over all 34½ in.; Hopper 2¾ in. Diameter, 9¾ in. Deep; Inside Steel Shoes 2⅜ in. Wide.

Per Dozen

No. T—TRIUMPH, Sliding Feed; Weight per doz. about 60 lbs. $15.00

Two Hand; Length over all 34 in.; Hopper 4⅜ in. in Diameter, 8½ in. Deep; Outside Steel Shoes 2⅞ in. Wide; 4 Rotary Wheels furnished with each, as follows: No. 1 (11/16 in.), drops One Grain at a time; No. 3 (⅛ in.), drops Two Grains; No. 3 (⅜ in.), drops Three Grains; Plate No. 8 (⅛ in.), is for Seed or Broom Corn.

Per Dozen

No. E—ECLIPSE, Rotary Feed; Weight per dozen about 120 lbs. $18.00

Hardwood Upright, Painted Red and Varnished; with Bolted Wood Grip Handle; Galvanized Sheet Steel Covered Hopper and Chute; Steel Wire Push Brace and Springs, with Movable Wood Arm 10½ in. Long, and Sheet Steel Slide; Steel Shoes 2⅛ in. Wide, One-Hand; Length over all 32 in.; Hopper 2½x2¾ in.; 13 in. Deep; Push Brace extends 8 in.

Per Dozen

No. 8—SEGMENT—Sliding Feed; Weight per dozen about 72 lbs. $20.00

One-half Dozen in a Crate.

POTATO PLANTERS.

No. AP

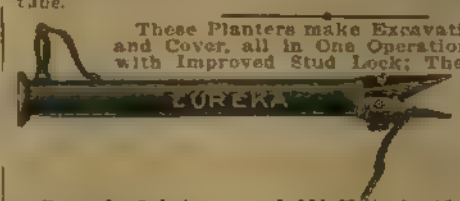
Front Jaw Slips Down ⅜ of an inch, which causes a pair of Studs on its Opposite Corners to slip over corresponding Shoulders in the Rear Jaw; When Thrust into the Soil to Deposit the Seed, the Front Jaw is Pushed Up, Releasing the Lock; Adjustable Cast Iron Depth Gauge, 8¾ in. Long, Bolted to Front Jaw; Plain Hardwood Grip Handle.

Per Dozen

No. 4P—ACME, Galvanized Hardware Cloth Conveying Tube, 3½ in. Diameter, 18 in. Long, with Black Japanned Cast Iron Collar, Bolted to Varnished Hardwood Handle; One-piece Black Japanned Cast Iron Handle Socket, with Step 2 in. Long on each Side, Riveted to Back Jaw; Black Japanned Crucible Steel Jaws with Polished Points and Sharpened Edges; Length over all 35½ in.; Weight per dozen about 70 lbs. $24.00

One-half Dozen in a Crate.

NOTE—This Planter makes excavation, drops seed potato and covers all in one operation. Open conveying tube enables each seed to be seen when passing through tube.



These Planters make Excavation, Drop Potato and Cover, all in One Operation, Self-Locking, with Improved Stud Lock; The Tube Obviates the necessity of Raising the Planter, to Deposit the Potato in the Beak; Adjustable Depth Gauge. The Eureka has a Record of 4 Acres and 280 Hills in 10 hours.

Per Dozen

No. EP—EUREKA; Plain Galvanized Iron Tube 27½ in. Long, 2½ in. in Diameter, with Wood Handle; Tapered 7½ in. Steel Planting Points, One Stationary and One Movable, with 8 in. Malleable Iron Actuating Lever; Weight per dozen about 68 lbs. $20.50

One-half Dozen in a Crate

CIGAR JARS, ASH RECEIVERS, INK STAND, PUFF BOX AND HAIR RECEIVER

PRICE EACH

No. 11345, Cigar Jar, **$1.50**
French Gray Finish Top.
No. 11346, Cigar Jar **$2.00**
Parisian Silver Finish Top.
Glass Base.

No. 11347, Cigar Jar, **$1.50**
Crystal Glass.
German Silver Silver Plated.

No. 11345, Cigar Jar **$1.75**
French Gray Finish Top.
No. 11346, Cigar Jar **$2.25**
Glass Base.
Parisian Silver Finish Top.

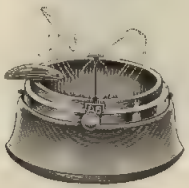
No. 11350, Ash Tray **$1.25**
French Gray Finish.
No. 11351, Ash Tray, **$2.00**
Parisian Silver Finish.

No. 11352, Cigar Jar, **$1.25**
Embossed Silver Plated Top.
Size, 4 x 6½.

No. 11353, Puff Box, **$1.00**
Embossed Top.
French Gray Finish.

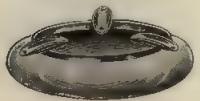
No. 11354, Hair Receiver, **$1.00**
Embossed Top.
French Gray Finish.

No. 11356, $3.00
Writing Set in Lined Box
Ink Stand, Pen Wiper and Holder and
Letter Opener
Parisian Ivory Silver Finish



No. 11355, $1.50
Automatic Ash Tray
Bowl Shaped Metal Ash Tray
Pottened Copper Finish
Top Heavily Nickel Plated.

No. 11360, Ash Receiver
and Match Holder, Floor
Stand **$4.50**
Bowl Polished Copper.
Stand Heavily Nickel Plated
Can be adjusted to any height.



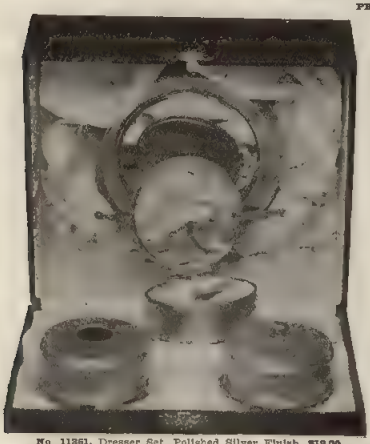
No. 11367, Ash Receiver **$1.50**
Polished Copper Finish
With Three Piece Resin.
Size, 5½ x 1¾.

No. 11358, Ash Receiver
and Match Holder **$1.00**
Heavily Nickel Plated.
High Polished

No. 11359, Ash Receiver
and Match Holder ... **$1.25**
Polished Copper Finish.
Match Holder Polished Nickel.

SILVER PLATED DRESSER SETS AND INK STAND AND ORMOLU GOLD CROSS AND INK STAND

PRICE PER SET



No. 11361, Dresser Set, Polished Silver Finish, **$12.00**
Contains Puff Jar, Hair Receiver, Jewel Case and Mirror
In Fancy Lined Green Moreen Cloth Hinged Case
Illustration One-Fourth Size

No. 11362, Dresser Set, Polished Silver Finish, **$8.50**
Contains Extra Size Puff Jar, Photo Frame, Pin Cushion, Cold Cream Jar and Salve Jar
In Fancy Lined, Green Moreen Cloth, Hinged Case.
Illustration One-Fourth Size.

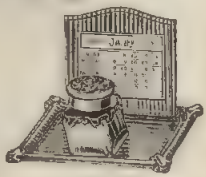
No. 11363, [illegible] Silver Finish, **$6.00**
Contains [illegible] Puff Jar, Pin Cushion and Cold Cream Jar
In Fancy Lined Green Moreen Cloth Hinged Case
Illustration One-Fourth Size

No. 11364, Dresser Set, Polished Silver Finish, **$9.00**
Contains Jewel Case (Satin Lined), Puff Jar, Hair Receiver, Cold Cream Jar and Salve Jar
In Fancy Lined, Green Moreen [illegible] Hinged Case
Illustration One [illegible]

No. 11365, $2.50
Crucifix Ormolu Gold
Height 9 Inches

No. 11366, $1.00
Hat Pin Stand,
[illegible] Finish.
No 011366½, $1.50
Parisian Ivory Silver Finish.

No 11367, $1.00
Ink Stand [illegible]
Illustration One-Third Size.



No 11368, $1.75
[illegible] and [illegible]
Perpetual Calendar, 5½ x 3¾,
Guaranteed Sterling Silver
Plated. Highly Polished

1967

PRESS BUTTON POCKET KNIVES.

First Quality English Crucible Steel Blades, Highly Tempered, SHARPENED READY FOR USE

No. 500PB.

ONE LARGE BLADE, Full Polished German Silver Bolster; Steel Lining.

Per Dozen

No. 500PB—4 IN. STAG HANDLE, Spear Point Blade.....$14.00

No. 510PB—4 IN. STAG HANDLE; Clip Point Blade..... 14.00

No. 507PB—4 IN. EBONY HANDLE, Spear Point Blade..... 14.00

No. 517PB—4 IN. EBONY HANDLE; Clip Point Blade. 14.00

No. 105PB

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; Brass Lining.

Per Dozen

No. 105PB—3¾ IN. PEARL HANDLE $35.00

No. 100PB—3¾ IN. STAG HANDLE . 14.00

No. 102PB—3¾ IN. IMITATION SHELL HANDLE 16.00

No. 103PB—3¾ IN. WHITE CELLULOID HANDLE 16.00

No. 107PB—3¾ IN. BLACK CELLULOID HANDLE 16.00

No. 115PB

TWO LARGE BLADES, 1 Clip Point and 1 Spey Point, Half Polished; Brass Lining

Per Dozen

No. 115PB—3¾ IN. STAG HANDLE $17.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Half Polished; Brass Lining.

No. 110PB—3¾ IN. STAG HANDLE . . . $17.00

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished German Silver Lining.

Per Dozen

No. 100/88—3¾ IN. STERLING SILVER EMBOSSED HANDLE, French Gray Finish.....$22.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; German Silver Lining.

Per Dozen

No. 200/88—3¾ IN. STERLING SILVER EMBOSSED HANDLE, French Gray Finish.....$22.00

No. 300/88

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Lining.

Per Dozen

No. 300/88—2¾ IN. STERLING SILVER EMBOSSED HANDLE, French Gray Finish.....$29.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; Brass Lining.

Per Dozen

No. 400/88—2¾ IN. STERLING SILVER EMBOSSED HANDLE, French Gray Finish $28.00

ELKS AND MASONIC

TWO BLADES, 1 Large Spear Point and 1 Pen Full Polished; German Silver Lining.

Per Dozen

No. 100/88E—3¾ IN. STERLING SILVER HANDLE with Elks Emblem on one side and Masonic on other side $32.00

MASONIC.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished, German Silver Lining

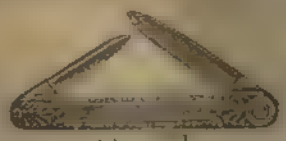
Per Dozen

No. 150/88M—3¾ IN. STERLING SILVER HANDLE with Masonic Shield on one side and Name Plate on other side..... $32.00

TWO BLADES, 1 Large Spear Point and 1 Large Pull Polished; German Silver Lining

Per Dozen

No. 110PB—3¾ IN. GERMAN SILVER EMBOSSED HANDLE..$14.00



Per Dozen

No. 310PB—2¾ IN. GERMAN SILVER EMBOSSED HANDLE; TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished; German Silver Lining $14.00

No. 110PB—2¾ IN. GERMAN SILVER EMBOSSED HANDLE; TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; Brass Lining 14.00

No. 300PB.

TWO BLADES, 1 Large Spear Point and 1 Pen, Full Polished, Brass Lining.

Per Dozen

No. 300PB—2¾ IN. STAG HANDLE $14.00

No. 305PB—2¾ IN. PEARL HANDLE 20.00

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished; Brass Lining.

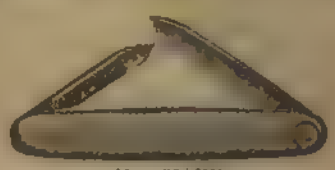
Per Dozen

No. 400PB—2¾ IN. STAG HANDLE $14.00

No. 403PB—2¾ IN. WHITE CELLULOID HANDLE 14.00

No. 405PB—2¾ IN. PEARL HANDLE 28.00

No. 407PB—2¾ IN. BLACK CELLULOID HANDLE 14.00



No. 203PB.

TWO BLADES, 1 Large Spear Point and 1 File, Full Polished.

BRASS LINING

Per Dozen

No. 203PB—3¾ IN. WHITE CELLULOID HANDLE $16.00

No. 200PB—3¾ IN. STAG HANDLE 14.00

No. 202PB—3¾ IN. IMITATION SHELL HANDLE 16.00

No. 205PB—3¾ IN. PEARL HANDLE 35.00

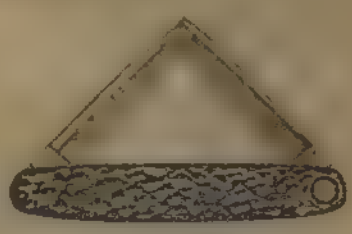
No. 207PB—3¾ IN. BLACK CELLULOID HANDLE 16.00

PEDICURE

TWO BLADES, 1 Large Pedicure Blade (Especially Adapted for Chiropodists) and 1 Small Corn Blade, Half Polished, Brass Lining

Per Dozen

No. 112PB—3¾ IN. IMITATION SHELL HANDLE.. $17.00



FLORISTS

TWO LARGE BLADES, 1 Square Point Grafting Blade and 1 Budding Blade, Half Polished; Brass Lining

Per Dozen

No. 121PB—3¾ IN. STAG HANDLE $16.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 2 lbs.

POCKET KNIFE ASSORTMENTS.

Showing No. K1906 Assortment.

KEEN KUTTER

Per Assortment

No. K1906—*KEEN KUTTER;** ASSORTMENT Consists of 24 *KEEN KUTTER* Pearl Handle Pocket Knives, Assorted Two, Three and Four Blades, Ranging in Price from $1.20 to $2.70 Each; Packed in Leatherette Covered Racked, Clasped Case, 10½x7¼x1½ in. Plush and Satin Lined; Weight per Asst. about 5½ lbs.....$50.00

No. K1—*KEEN KUTTER;** ASSORTMENT Consists of 12 *KEEN KUTTER* Pearl Handle Pocket Knives, Assorted Two, Three and Four Blades, Ranging in Price from $1.80 to $2.80 each; Packed in Leatherette Covered Racked, Clasped Case, 11x5x1 in., Plush and Satin Lined; Weight per Assortment about 1¾ lbs..... 26.00

HORNET*.

Each Knife Packed in Separate Cardboard Boxes, Containing Jewelers' Cotton; One Dozen Knives in a Cardboard Box 8x7x1 in.

Per Assortment

No. H8—HORNET*; ASSORTMENT Consists of 12 HORNET Pearl Handle Pocket Knives, Assorted Two, Three and Four Blades, Ranging in Price from $1.30 to $1.50 each.....$17.00

No. H10—HORNET*; ASSORTMENT Consists of 13 HORNET Pearl Handle Pocket Knives Assorted Two, Three and Four Blades, Ranging in Price from $1.50 to $2.00 each 22.00

No. H13—HORNET*: ASSORTMENT Consists of 13 HORNET Pearl Handle Pocket Knives, Assorted Three and Four Blades Two with Cork Screw, Ranging in Price from $2.00 to $4.00 each..... 32.00

Weight per Assortment about 1¾ lbs.

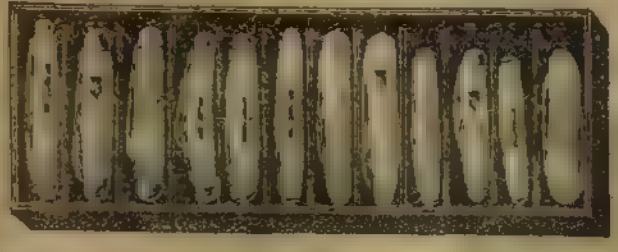
PRESS BUTTON

Assortment Consists of 12 Two Blade PRESS BUTTON Pocket Knives, Ranging in Price from $1.00 to $2.00 each; 3 Imitation Shell Handle, 2 Imitation Stag Handle, 2 Pearl Handle, 2 White Celluloid Handle, 1 Black Celluloid Handle, 1 Sterling Silver Handle, 1 German Silver Handle; Packed in Leatherette Covered Racked, Clasped Case, 11x5x1 in. Plush and Satin Lined.

Per Assortment

No. PRPL—PRESS BUTTON; ASSORTMENT; Weight per Assortment about 1¾ lbs.....$20.00

Each Case Packed in a Heavy Cardboard Box.



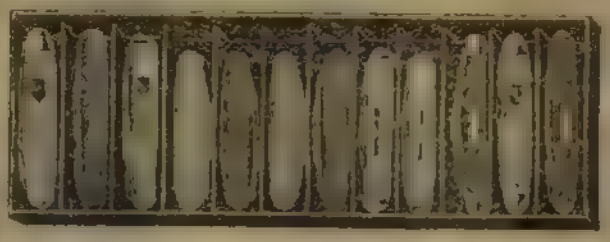
1 Ass't Set

No. K12½—*KEEN KUTTER;** ASSORTMENT Consists of 12 *KEEN KUTTER* Pearl Handle Pocket Knives, Assorted Two, Three and Four Blades, Ranging in Price from $1.75 to $2.50 each, Packed in Black Karatol Racked Case, 11x4x1 in., Green Plush Lined; Weight per Assortment about 1¾ lbs.....$27.50

POCKET KNIFE ASSORTMENTS.

HOWARD*.

No. G5700—HOWARD*; ASSORTMENT Consists of 12 Howard Two Blade Assorted Handle Pocket Knives, Packed in Black Karatol Racked Case, 11x4x1 in., Green Plush Lined; Weight per Assortment about 1¼ lbs.....Per Assortment, $4.80



No. G400—HOWARD*: ASSORMENT Consists of 12 Howard Assorted Celluloid Handle Pocket Knives; Assorted Two, Three and Four Blades; Packed in Black Karatol Racked Case, 11x4x1 in., Green Plush Lined; Wgt. per Ass't. about 1½ lbs....Per Ass't. $9.00

POCKET KNIVES.

*KEEN KUTTER**

Combination Knife; Highest Grade English Crucible Steel Blades, Uniformly Tempered, Hand Hammered, Full Polished, SKEWPINED READY FOR USE, TWO BLADES, 1 Large Spear Point and 1 Pen, Or Each, Polished Steel Combination Hoof Cleaner and Nut Cracker, Cork Screw Screw Driver, Tweezers, Pipe Cleaner, Gouge and Tempered Steel Fleam.

No. K836—*KEEN KUTTER:** 4 IN. GENUINE STAG HANDLE; Polished Steel Bolster; German Silver Shield Steel Lining .....Per Dozen, $31.00

One-Half Dozen in a Cardboard Box;.

Weight per Dozen about 4 lbs.

Combination Knife, First Quality English Crucible Steel Blade, Highly Tempered, Half Polished; 1 Large Spear Point Blade, and 1 Each Polished Steel Gouge, Hoof Cleaner, Screw Driver and Combination Pliers and Wire Cutter.

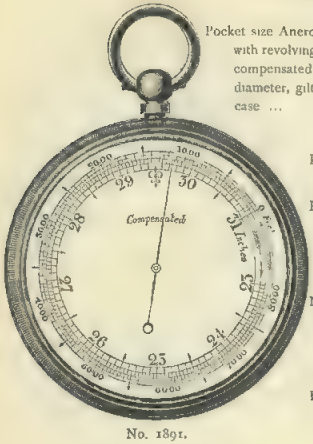
No. 3H—STAG HANDLE; Length over all 4½ in.; German Silver Bolsters; Brass Lining.....Per Dozen, $27.00

One-Half Dozen in a Cardboard Box;

Weight per Dozen about 3 lbs.

Aneroid Barometers.

Compensated for Temperature.



No. 1891.

No. 1891

Pocket size Aneroid, silvered metal dial, with revolving altitude scale 8,000 ft., compensated for temperature, 2½ in. diameter, gilt case in outer morocco case ... ... Each **£2 : 9 : 0**

No. 1892.

Ditto, ditto, but in sling leather case ... **2 : 14 : 0**

Extra for—

3,000 ft. altitude scale **0 : 5 : 0**
12,000 „ „ „ **0 : 4 : 0**
16,000 „ „ „ **0 : 8 : 0**

No. 1893.

No. 1893. Metal case, 3 in. diam., fixed altitude scale 8,000 ft., compensated for temperature, in sling leather case ... Each. **£3 : 15 · 0**

„ 1893/2. Same as 1893, 4 in. diam. **3 19 . 0**

„ 1893/3. Same as 1893, 5 in. „ **4 · 3 · 0**

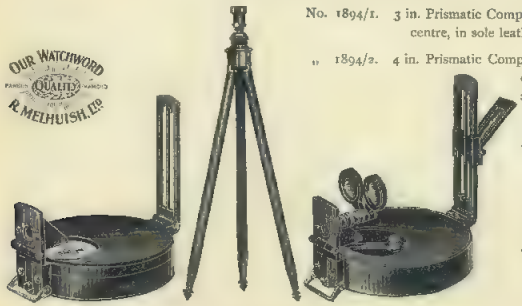
Extra for aluminium case, 3 in. diam. **0 : 6 : 0**

„ „ „ 4 in. „ **0 : 6 . 6**

„ „ „ 5 in. . **0 : 7 · 0**

No. 1891,
Extra for 3,000 ft. altitude scale **£0 : 5 : 0**
„ 12,000 ft. „ **0 : 4 : 0**
„ 16,000 ft. „ .. **0 : 8 · 0**

Prismatic Compasses.



No. 1894. Metal Tripod. No. 1894/1.

No. 1894/1. 3 in. Prismatic Compass, card dial, jewelled centre, in sole leather sling case ... ... Each. **£2 : 6 : 0**

„ 1894/2. 4 in. Prismatic Compass, card dial, jewelled centre, in sole leather sling case ... ... **2 : 13 : 0**

EXTRAS—

Azimuth shades and mirrors to either of the above, 3 in., **14/-** 4 in., **17/-**

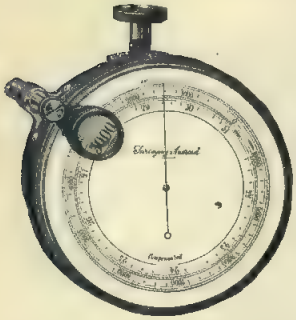
Engine divided aluminium rings, 3 in. or 4 in., **£1 : 0 : 0**

Tripod stands with ball and socket motion, as illustrated, 3 in. or 4 in., **£1 : 12 : 0**

Bronze Medal, 1884.—Gold Medal, 1890.

Special Surveying Aneroid Barometers.

No. 1887.



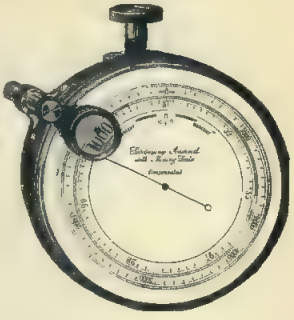
Compensated for Temperature.

These instruments have been designed and constructed especially for the purpose of readily ascertaining slight variations in gradients, levels, etc. For approximate surveys and levellings, for roads, railways, canals, water courses and mines, they are invaluable, as their readings can be easily and rapidly taken.

The following altitude scales are arranged by Vernier to read to single feet of elevation·

3 in. ... 3,000 ft
5 in., 3,000 to 6,000 „

No. 1888.



All higher altitudes scales will read by Vernier to two feet of elevation.

No. 1887/1. 3 in. stout metal case, silvered metal dial, with Vernier scale moved by rackwork motion, reading lens arranged to traverse the entire circle, altitude scale 6,000 ft., in solid leather sling case ... ... **£7 : 0 : 0** each.

No. 1887/2. 5 in. ditto ditto .. ... **£7 : 10 : 0** „

No. 1888/1. 3 in. ditto but with altitude scale arranged for mining purposes, 4,000 ft. ascent, 2,000 ft. descent ... ... **£7 : 0 : 0** „

No. 1881/2. 5 in. ditto ditto **£7 : 10 : 0** „

Extras—for either 3 or 5 in., Nos. 1887 and 1888.

B.	3,000 ft. altitude	**£0 : 7 : 0**	
C.	5,000 „ „	No extra charge	
D.	10,000 „ „	**0 : 6 : 0**	
E.	12,000 „ „	**0 · 10 : 0**	
F.	16,000 „ „	**0 : 14 : 0**	
G.	20,000 ft. altitude	**£1 : 2 : 0**	
J.	In Aluminium, 3 in , Nos. 1887 and 1888	**1 : 0 : 0**	
J.	In Aluminium, 5 in., Nos. 1887 and 1888	**1 : 10 : 0**	

The Verschoyle Patent Pocket Transit.

In Aluminium Body. Weight of Instrument 9 oz.

No. 1889.

This instrument combines the useful features of Abney level, prismatic compass, and clinometer. It has been designed by a mining engineer of practical experience in the use and possible application of the various forms of instruments intended for preliminary survey.

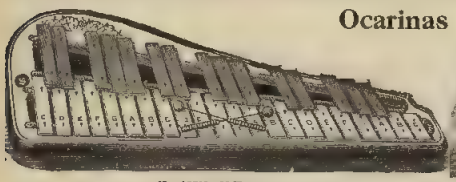
The distinguishing feature of the instrument is that, owing to its novel construction, only one observation is necessary to obtain both the magnetic bearing and the vertical angle of any distant point. It is also specially adapted for use in difficult positions, such as are always liable to occur in filling in the rougher details in a mining survey. For rapid topographical work, and working in constrained positions, the fact that half the labour is saved should be of interest to those who have to use this class of instrument. Another important point is that its efficiency is not determined by the length of the diameter of the compass, as is the case with the ordinary prismatic compass. With this small instrument the same length of sight is obtained as would be obtained with a 6 or 7 in. prismatic compass.

No. 1889. Verschoyle Transit for hand use, in sling leather case ... ... **£6 · 0 : 0** each.

No. 1890. Same as No. 1889, but with angle piece and collapsible metal tripod, ball and socket fitting **8 : 0 : 0** „

Contractors to the Home, Indian, and Colonial Governments.

Orchestra Bells, Autoharps, Xylophones, Bones, Jewsharps and Ocarinas



No. A2502 25 Keys

ORCHESTRA BELLS—(Glockenspiel)

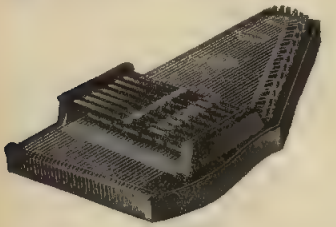
No.		Each
A2500	12 keys, fancy bronzed, ornamented wood frame	$ 2.65
A2501	18 keys, fancy bronzed, ornamented wood frame	4.25
A2502	25 keys, fancy bronzed, ornamented wood frame	5.50

No. A2511 37 Bars

PROFESSIONAL ORCHESTRA BELLS

These Instruments are for Professionals. Tuned to High and Low Pitch

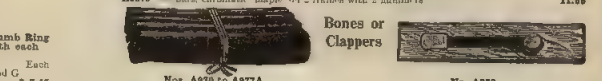
No.		Each
A2508	25 steel bars, 2 octaves, chromatic scale, wood case	$24.00
A2509	37 steel bars, 3 octaves, chromatic scale, wood case	33 25
A2510	25 polished steel bars, 2 octaves, chromatic scale, fine finished walnut case	30.20
A2511	37 polished steel bars, 3 octaves, chromatic scale, fine finished walnut case	44.30



AUTOHARPS

Full Instructions and Book with Music, also a Thumb Ring and Adjustable Wire Music Rack, Furnished with each Instrument

No.		Each
A71	20 strings, 3 bars, 3 chords C major, F major and G seventh	$ 7.45
A73¾	28 strings, 5 bars, 5 chords, C, F, Bb major and C, G seventh	10.50
A73½	32 strings 5 bars, 8 chords C, F, Bb major, C, G, E seventh, A, D minor	17.70
A75	37 strings, 12 bars, 12 chords, Bb, F, C, G major, C, G, D, A, E seventh, A, G, D minor	22.45
A 5	32 strings, 6 bars with shifters, 9 chords, Bb, F, C, G, D, A major, C, G, D, A seventh, G, D, A, E, B major, C minor, diminished seventh	43.35



No. A5877

XYLOPHONES

No.		Each
A5877	15 bars, from F to F 2 octaves, rosewood, on frame with 2 hammers	$ 3.20
A5878	15 bars, maple, varnished, with pad bearers and screw rods, A to F	4.85
A5879	bars, chromatic maple, on 2 frames with 2 hammers	11.55

Bones or Clappers

Nos. A970 to A977A

No. A980

No.		Per Doz.
A970	6 inches, imitation ebony, sets of 4	$ 2 20
A971	6½ inches, rosewood, superior quality, sets of 4	3.10
A972	7 inches, rosewood, superior quality, sets of 4	7.10
A973	8¼ inches, rosewood, superior quality, sets of 4	7.35
A974	7 inches, rosewood, superior quality, sets of 4	10.50
A975	8¼ inches, ebony, superior quality, sets of 4	10.35
A976	7 inches, ebony, superior quality, sets of 4	15.60
A977	7 inches bone, superior quality, sets of 4	35.35

No.		Per doz. Set of 2.
A980	Patent clappers, 1 clapper	$ 1.70
A981	Patent clappers, 2 clappers	2.10

No. A3036

JEWSHARPS

No.		Per Doz
A3070	1¾ inch, Irish iron, with regular tuning plate	$ 0.55
A3071	2⅛-inch, Irish iron, with regular tuning plate	.90
A3072	2⅜-inch, Irish iron, with regular tuning plate	1.20
A3073	2½-inch, Irish iron, with regular tuning plate	1.50
A3076	2⅝-inch, Irish iron, with 2 regular tuning plates	1.95
A3077	2⅝-inch, Irish iron, lacquered, with fine tempered tuning plate, fancy shape	2.35
A3078	2⅝-inch, Irish iron, lacquered, with fine tempered tuning plate, fancy lyre model	2.10
A3083	1⅞-inch Irish electro-plated iron, with fine tempered tuning plate	1.65
A3084	2⅝-inch, Irish, electro-plated iron, with brass tipped tuning plate	3.10
A3085	2⅝-inch, Irish, solid brass, engraved, with fine tempered tuning plate, lyre shape	1.65
A3093	2-inch, Jones make, lacquered, with fine tempered tuning plate	2.10
A3093½	2½-inch, Jones make, lacquered, with fine tempered tuning plate	2.30

Finest Quality. The Only Guaranteed Jewsharps

A3065	2½-inch, fine quality steel tongue, fine white metal frame	$ 4.25
A3067	2½-inch, fine quality steel tongue, fine white metal frame	5.40
A3068	3-inch, finest quality steel tongue, fine white metal frame	7.50

Nos. A3070-A3078

OCARINAS

No.		Each
A3557	1 C soprano	$0.55
A3557	2 Bb soprano	.55
A3557	3 A soprano	.55
A3557	4 G soprano	.65
A3557	5 F soprano	.65
A3557	6 E soprano	.70
A3557	7 Eb soprano	.70
A3558	8 D alto	.75
A3558	9 C alto	.75
A3558	10 B alto	.95
A3558	11 A alto	.95
A3558	12 G alto	.95
A3558	13 Ab Alto	1.05
A3558	14 F alto	1.95
A3558	15 E alto	1.80
A3558	16 C	1.95
A3569	17 Bb bass	2.35
A3569	18 C bass	2.65

No.		Each
A3569	19 Bb bass	$ 3.75
A3569	20 A bass	3.75
A3569	21 G bass	4.80
A3569	32 Eb contra bass	5.90
A3560	23 D contra bass	6.30
A3560	24 D contra bass	7.75
A3560	25 C contra bass	7.75

French Manufacture

A3562	1 C soprano, metal, nickel-plated, French manufacture	$0.65
A3562	2 A soprano, metal, nickel-plated	.75
A3562	3 F alto, metal, nickel-plated	1.30
A3562	4 D tenor, metal, nickel-plated	1.40
A3562	5 Bb baritone, metal, nickel-plated	1.70
A3562	6 A baritone, metal, nickel-plated	1.90
A3563	5½ C baritone, metal, nickel-plated, with tuning slide	3.50

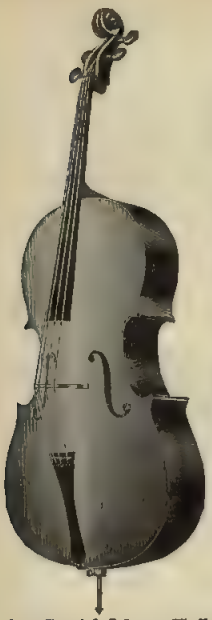
Quartet sets can be arranged with 1 each, soprano, alto, bass and contra bass of a given key or use 1 soprano, 2 altos and 1 bass. The latter being the cheaper set.

Nos. A3557 to A3560

No. A3562

Violoncellos, Violoncello Bows and Violin Outfits

VIOLONCELLOS. Bows Not Included



With Patent Heads

No.		Each
A5206	Reddish brown color, fair quality	$26.25
A5207	Fine shaded maple back and sides, imitation ebony trimmings	30.50
A5208	Fine shaded and polished maple back and sides, imitation ebony trimmings	32.70
A5209	Stradivarius model, fine quality polished, full ebony trimmings, imitation ebony trimmings	36.75
A5212	Three-quarter size, full ebony trimmings, fine quality, ebony veneered fingerboard, ebony tail piece	38.00
A5210	Three-quarter size, fine quality polished maple sides, ebony veneered fingerboard ebony tail piece	38.00
A5211	Stradivarius model, fine quality polished maple sides, imitation ebony trimmings best quality	46.66
A5213	Stradivarius model, fine quality polished maple back and sides, fine Italian finish, ebony trimmings	92.50

With Ebony Pegs

No.		Each
A5198	Plain, reddish brown color, ordinary quality, with pegs	23.15
A5197	Plain polished maple sides and back, imitation ebony trimmings, ebony pegs	27.00
A5196	Finely shaded, maple back and sides, imitation ebony trimmings, with pegs	31.30
A5199	Stradivarius model, fine quality polished, full ebony trimmings	40.85
A5200	Guarnerius model, extra quality, polished, full ebony trimmings	56.75

Fine Italian Splendid Copies

No.		Each
A5201	Italian, copy of Stradivarius, ebony trimmings, fine quality	$ 83.25
A5202	Italian copy of Stradivarius, ebony trimmings special quality	152.50
A4654	Violoncello by Antonio Stradella, Guarnerius model, ebony trimmings	109.95

Genuine Breton, (France)

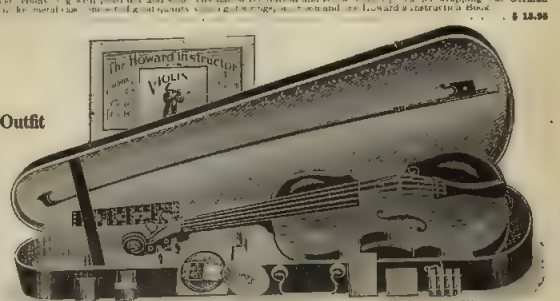
No.		Each
A5302	One-half size, genuine Breton, Stradivarius model, ebony trimmings	92.50
A5304	Three-quarter size, genuine Breton, Stradivarius model, ebony trimmings	92.50
A5305	Full size, genuine Breton, Stradivarius model, ebony trimmings	92.50

Violoncello Bows

No.		Per Doz.
A6251	Dark red, polished, plain ebony frog, bone button	$ 1.50
A6262	Brazilwood, ebony frog, with pearl dot, bone button	2.15
A6263	Brazilwood, ebony frog, with pearl slide and dot, bone button	2.25
A6264	Brazilwood, ebony frog, with pearl slide and dot, German silver button	3.20
No.		Each
A6265	Full size, Brazilwood, ebony frog, German silver mounted pearl slide, German silver button	4.50
A6266	Vuillaume model, ebony frog, German silver lined pearl slide, German silver button	7.20
A6267	Snakewood, German silver trimmed, ebony frog, German silver mounted pearl slide and dot, German silver button	11.25

Our Beginners' Violin Outfit

No. 46738. This outfit contains one Stradivarius model violin, ebony finger board, imitation ebony tail piece and pegs, two-piece medium figured maple back, highly polished, handsomely purfled around edges, full size and well matched; one bow, Brazilwood, ebony frog, with pearl dot and slide, German silver button and screw, hair ready for wrapping, the German silver taking parts to be metal case containing violin, bow and an Howard's Instruction Book. Outfit Complete . . . . . $ 13.95



Our Special Johann Hoffmann Violin Outfit

No. 45428. This outfit contains one Johann Hoffmann Stradivarius model violin, light brown varnish, two-piece flamed maple back, ebony trimmings, pegs with pearl dots, scroll heads, elsewise same description as above.
Outfit Complete . . . . . $ 17.90

Our Artist's Copy Violin Outfit

No. 47185. This outfit contains one Artist's Copy Stradivarius model violin, rich red Brown, highly polished two-piece back, handsomely flamed, fine ebony trimmings, ivory nut and saddle, scroll edge, in black artist's case, otherwise same description as No. 45738.
Outfit Complete . . . . . $ 26.75

FREE MUSIC LESSONS WITH MUSICAL INSTRUMENTS

We wish to announce to the trade that we have arranged to include a free scholarship certificate, good for a one year's course in music lessons in

THE SIEGEL-MYERS CORRESPONDENCE SCHOOL OF MUSIC

with every Violin, Mandolin, Guitar Banjo Cornet, Baritone, Tenor, Alto, Valve Trombone, Mellophone, Bb Bass and Euphonium sold by us.
The pupil gets the dealer in a position to sell musical instruments with the assurance of complete success to the purchaser, and the dealer gets the benefit of advertising and the profits on sales for the enterprising dealers who make use of it.

NO COST TO THE DEALER

The lessons are absolutely free to both the dealer and his customer. Our arrangement with the Music College covers the cost of tuition, and the only expense the pupil is put to is a merely nominal sum, to cover the cost of stationery, postage, music, examination papers, etc. furnished by the school. This the pupil pays directly to the School, the amount is guaranteed not to exceed 12½ cents a week. The pupil is at liberty to discontinue the lessons and payments at any time.

REASONS FOR THESE FREE LESSONS

We have arranged to give the free lesson certificates, in order that no one who wishes to possess a musical instrument should be debarred on account of the difficulty of learning to play. By this arrangement it is now possible for everyone to learn to play the instrument of their choice, with the assistance of competent educators. Furthermore, this gives the benefit of learning under the celebrated University Extension system, which is being universally adopted in all branches of education.
The course covers the subject of playing the instrument from the very beginning, including the rudiments of music reading by note, the choicest tone production and expression. In a word it embraces everything necessary to make a thorough musician of the pupil, and we feel confident that the result will be entirely satisfactory.

SIEGEL MYERS CORRESPONDENCE SCHOOL OF MUSIC

This school is, we believe, the foremost Musical Correspondence School of the world. We have made a close study of the various methods, and observed the progress of their students. We have therefore adopted and embodied in the Siegel-Myers School of Music, their course covers the highest branches of the art as well as the simplest, and every detail of the lessons from first to last, is carefully explained by competent instructors, of the many years' experience. The study of each instrument is supervised by one of the foremost teachers of the country.
Anyone who has kept pace with the course of modern musical instruction will at once recognize in the following list of experts, comprising the Siegel-Myers faculty, a master-specialist in the art of music, whose great teachers of world-wide reputation, associated themselves with a scheme of instruction that was not both thorough and artistic in results.

THE COURSE A HELP TO TEACHERS

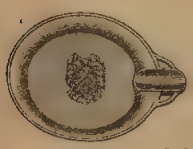
Our adoption of the Correspondence School Certificate plan has proved a great benefit to teachers, who have to contend with the growing popularity of talking machines, etc., resulting in a loss of patronage. Our free scholarship plan greatly increases the use of Stringed and Band Instruments, and enables the dealer and teacher to co-operate. The pupil is saved the added expense for instruction books, music, etc. and the teacher's work is made less, inasmuch as the students having plain written instructions, life photographs, etc., to simplify his studies.

FREE LESSONS A WINNER

Reports from dealers, who are pushing the free lesson plan, are to the effect that it is the most successful one ever introduced for promoting the sale of small instruments. That their reports are correct we know from our experience in our own retail department, where, by means of newspaper advertising, window displays, and word-of-mouth advertising to customers in the store, we have seen our retail sales of small instruments increase four and five fold. There is no question whatever that other dealers can do as well.
Why not make up a small order right now of goods bearing the free lesson feature, and get busy with a little active promotion work in your city? We are satisfied that the results will repay you.

CAST METAL WARE

Cast Metal, perfectly White and Dense; Each Piece is Plated with Copper before the Final Finishing Plate is applied; Hand Burnished; All Lacquered and will not Tarnish.



ASH TRAY Per Dozen

No. 1103 Antique Brass Finish, Raised Bull Dog Head Center design with Cigar Rest; Depth 4 in. Width 3½ in. Weight per Dozen 9 lbs. **$2.75**

MATCH HOLDER

Per Dozen

No. 223 Cottage Bale in Melon Patch with Pickaninny **Ormolu Gold Finish;** 2½ in. High, 2½x2¾ in. Base; Weight per Doz. 5 lbs. **$2.75**

Twelfth Dozen in a Package

ASH TRAY Per Dozen

No. 317—Bull Dog Head Design with Pipe Match Holder and with Cigar Rest; **Dull Brass Finish;** 1½ in High; 6x6 inch Base; Weight per Dozen 16 lbs. **$13.20**

HAT PIN HOLDERS

Per Dozen

No. 1158—Burnished Silver Finish, Blue Plush Cushion; Parasol Lined with Gold Plated Wire Cloth through which to stick Pins. Size of Base 3½ in., Height Overall 8½ in. Weight per Dozen 8 lbs. **$13.20**

Twelfth Dozen in a Package

Per Dozen

No. 180—Ormolu Gold Finish; Blue Velvet Raised Cushion Pin Protector which can also be used as a Cushion for small Stick, Breast and Shirt Waist Pins. Height 5¾ in., 3¾x3¾ in Base; Weight per Dozen 6 lbs. **$13.20**

DRESSER SET Per Set

No. 1210—Six Pieces: Ormolu Gold Finish, Hat Pin Holder 4¾ in. High; Jewel Box, Pink Silk Lined; 2 in High, 3 in. Long; 2 in. Wide; Pin Cushion with Blue Velvet Cushion, 2 in. High, 3 in. Long, 2 ½ Wide, Miniature Picture Frame with Easel Back, 2½ in. High, 1½ in. Wide, Pressed Glass Salve Jar, 2 in. Diameter, 2 in. High, Pressed Glass Hair Pin Box, 2 in High, 3½ in. Long 2 in. Wide; Weight per Set 2¼ lbs. **$2.80**

One Set in Cloth Lined Compartment Box.

TRAVELING CLOCKS AND TRAVELING CLOCK CASES AND WATCHES IN CASES

FRENCH TRAVELING CLOCK

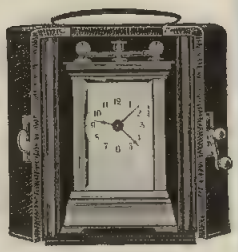
No. 11428. $15.00
Gold Plated Case. Height of clock 4¾ inches, without handle. Eight-Day Time and One-Day Alarm. Cylinder French Movement. Beveled glass on four sides and top. Leatherette case.

PRICE EACH

LEATHER FOLDING TRAVELING CLOCK

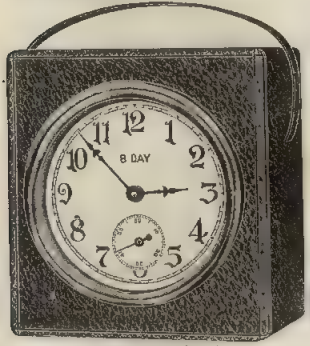
No. 11430, 8-Day Movement **$18.00**
Leather Folding Traveling Clock. It is the lightest and most practical Traveling Clock. They close up like a pocketbook, and take very little room. Dial, 3½ inches. Case when closed 4 x 4 inches. Imported.

LOUVRE

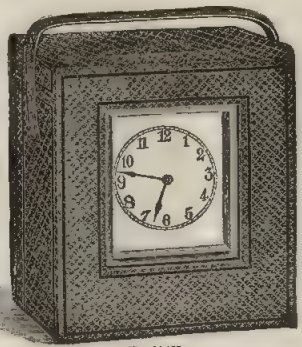


No. 11431, $6.40
One-Day Louvre Alarm. Height, 8½ inches. Dial, 1¾ inches. In Leather Chapel Case. Nickel Case. Imported.

SESSIONS 8-DAY GUARD

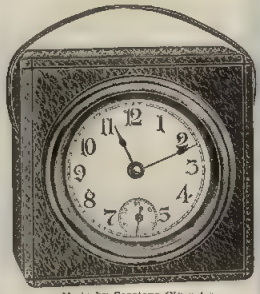


Made by Sessions Clock Co.
No. 11432, $3.60
Genuine Black Leather Case. Height, 3⅛ inches. 2½-inch Porcelain Dial. 8-Day Time.

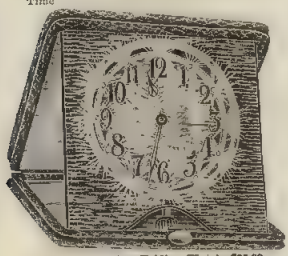


No. 11433
Red Leather Case for Conductor Clock. Leather Case (without Clock) **$2.10**
Height, 4½ inches.

I-DAY PAGE



Made by Sessions Clock Co.
No. 11434, $2.30
Genuine Black Leather Case. Height, 3 inches. 2-inch Porcelain Dial. 1 Day Time.



No. 11435, Leather Folding Watch. **$25.00**
Leather case in black, green or red and genuine seal. Metal hinge for the part which holds the movement and case. Size, 4¼ x 4¼. Dial, 3⅛ inches. High-grade 11 jewel lever movement; one-day time, German make. Radium luminous dial and hands. The luminous material used contains "Radium" and therefore radiates by its own force, and the time can be read quite distinctly by night. Imported.

No. 11436
Red Leather Case for Speck Clock. Leather Case (without Clock) for Speck **$1.20**

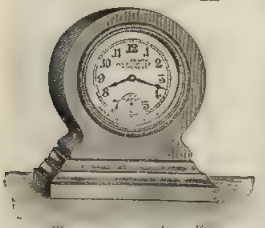
ELITE WATCH

No. 11437, $5.25
Elite Watch in Russian Leather Case. Height, Open, 4 inches; width, 2⅜ inches. Made by New Haven Clock Co.

PARISIAN IVORY, BRUSHED BRASS AND MAHOGANY DESK OR DRESSER CLOCKS

PRICE EACH

NEW HAVEN SERINA ALARM

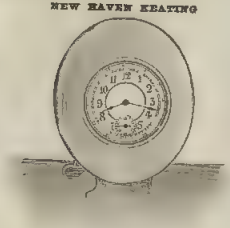


No. 11419, $3.65
New Haven Clock Co.
Height, 3⅝ inches, width, 3¼ inches
Porcelain Dial
Old Brass Finish Movement.
1-Day Time.

NEW HAVEN SELDA

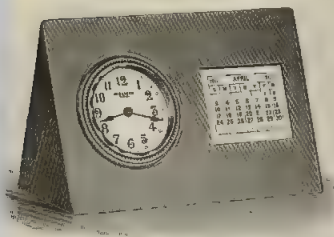
No. 11420, $5.15
New Haven Clock Co.
Height 1⅞ inches width 3¾ inches
Porcelain Dial 2 inch Brush.
Brass Finish Movement.
1-Day, Intermittent Alarm.

NEW HAVEN KEATING



No. 11421, $4.65
New Haven Clock Co.
Height 3¼ inches width 2¾ inches.
Porcelain Dial, 2 inches
Parisian Ivory, Movement.
1-Day Time.

NEW HAVEN DATRO

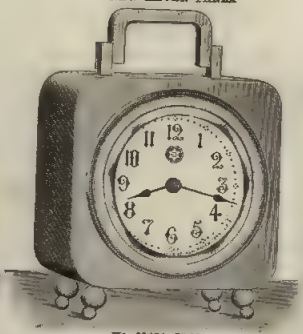


No. 11422, $2.90
New Haven Clock Co.
Height, 2½ inches, width, 5½ inches.
Dial, Porcelain, 2 inches.
Case, Heavy Brush Brass Finish,
with Calendar.
Movement, 1-Day Time.

NEW HAVEN QUIZ

No. 11422, $6.50
New Haven Clock Co.
Height, 3½ inches width, 4 inches.
Dial, Porcelain 2 inches.
Case, Solid Mahogany
Movement, 8-Day Time

NEW HAVEN PANKA



No. 11424, $3.50
1-Day, Gilt Time.
Height, 4 inches; width, 3¾ inches.
Porcelain Dial, 2 inches.
Case, Solid Brass, Gilt Finish

NEW HAVEN RUNICK

No. 11425, $5.10
Height, 6½ inches; width, 4½ inches.
Porcelain Dial, 3 inches.
Case, Solid Mahogany, with Inlaid
Marquetry Decorations
Movement, 1-Day Timepiece.

NEW HAVEN PADUA

No. 11426, $2.90
Height, 4 inches width, 3¼ inches
Porcelain Dial, 3 inches.
Gilt Finish, Movement, 1-Day Timepiece.

NEW HAVEN PEQUOT

No. 11427, $2.90
Height, 4¼ inches, width, 3 inches.
Porcelain Dial, 2 inches.
Gilt Finish, Movement, 1-Day Timepiece.

TICKET PUNCHES.

KEEN KUTTER*

KEEN KUTTER*; Nickel Plated and Polished Cast Steel Frames, with Hardened Tool Steel Dies; Coil Wire Springs. Assorted Fancy Pattern Dies.

Per Dozen
No. K506 — KEEN KUTTER*; With 1⅛ in. Reach; Length over all 6¼ in.; Weight per dozen about 4½ lbs. $26.50

Per Dozen
No. K500 KEEN KUTTER*; With 1 in. Reach; Length over all 4⅛ in.; Weight per dozen about 3½ lbs.. $26.50

Per Dozen
No. K503 — KEEN KUTTER*; With 2 in. Reach; Length over all 6½ in.; Weight per dozen about 6½ lbs. $24.50

Per Dozen
No. K500—KEEN KUTTER*; With 1 in Reach; Length over all 4⅛ in.; Weight per dozen about 4 lbs. $26.50

OAK LEAF*

OAK LEAF*; Malleable Iron Frames, Nickel Plated and Polished; With Steel Dies, Assorted Fancy Patterns.

Per Dozen
No. E2500—OAK LEAF* With 1⅛ in Reach; Flat Steel Spring; Length over all 5¼ in.; Weight per dozen about 3½ lbs.... $13.50

Per Dozen
No. E2200—OAK LEAF;* With ¾ in. Reach; Steel Wire Spring; Length over all 4⅛ in.; Weight per dozen about 2½ lbs..... $9.20

Per Dozen
No. E18—OAK LEAF;* With 1 in. Reach; Spiral Wire Spring; Length over all 4⅝ in.; Weight per dozen about 3½ lbs.... $11.50

One-half Dozen in a Cardboard Box.

Nickel Plated Stamped Steel Frame; Scored Handles; Steel Die and Plunger; Steel Wire Main Spring with Finger Ring.

Per Dozen
No. 33 — "PARAGON", Length of Reach 1 in. Length over all 4¾ in.; Assorted Pattern Dies; Weight per dozen about 1¾ lbs. $4.70

One-half Dozen in a Cardboard Box.

Per Dozen
No. 30—Length of Reach 1 in.; Length over all 5 in.; Assorted Pattern Dies. Reservoir Attachment retains the Particles punched from tickets, can be emptied when desired; Weight per dozen about 1¾ lbs. $4.70

One-half Dozen in a Cardboard Box.

PUNCHES.

Cut Showing Sizes of Punch Tubes for Punches.

KEEN KUTTER*

SPRING, SINGLE TUBE. Full Polished Malleable Iron Handles and Jaws; Highest Grade Crucible Steel Swaged and Tempered Tube; Heavy Rivet at Joint, Tempered Steel Spring Riveted to Handle.

Per Dozen
No. K42—KEEN KUTTER*; Assorted Size Tubes, Nos. 4, 5, 8 and 10 in a dozen; Weight per dozen about 10 lbs.. $7.90
One-half Dozen in a Wood Box.

Extra Tubes for No. K42 Punches 2.30
Packed Loose.

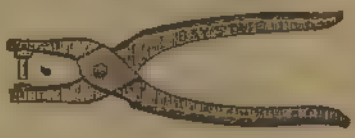
OAK LEAF*

SPRING, SINGLE TUBE. Polished Iron Handles and Jaws; Tempered Tool Steel Tube; Tempered Steel Spring Riveted to Handle.

Per Dozen
No. E32—OAK LEAF*; Assorted Size Tubes, Nos. 4, 6, 8 and 10 in a dozen; Weight per dozen about 8½ lbs.. $4.50
One Dozen in a Cardboard Box.

Extra Tubes for No. E32 Punches 1.80
Packed Loose.

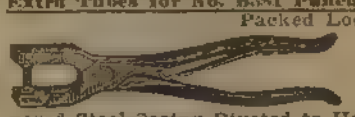
BAY STATE*



SPRING, SINGLE TUBE. Polished Steel Handles and Frame; Tempered Steel Tubes; Springs Coiled Around Rivet at Joint and Extend Back in Concave Handles.

Per Dozen
No. B381— BAY STATE*; 8 IN.; Assorted Size Tubes, Nos. 2, 4 and 6; Weight per dozen about 5½ lbs.... $4.70
One-half Dozen in a Cardboard Box.

Extra Tubes for No. B381 Punches 1.70
Packed Loose.



OSBORNE'S.

Full Polished Cast Steel Handles and Jaws; Best Grade Tempered Tool Steel Tubes; Tempered Steel Spring Riveted to Handle.

Per Dozen
No. 153—OSBORNE'S; With One Tube; Assorted Size Tubes Nos. 1 to 8; Weight per dozen about 7 lbs.. $18.40
One-half Dozen in a Cardboard Box.

Extra Tubes for No. 153 Punches, Nos. 1 to 8; Weight per dozen about ⅛ lb..... 1.90
Packed Loose.

KEEN KUTTER*

REVOLVING, 4 TUBE. Full Polished Drop Forged Steel Handles and Jaws; Highest Grade Crucible Steel Swaged and Tempered Tubes; Heavy Rivet at Joint; Tempered Steel Spring Riveted to Handle.

No. K44—KEEN KUTTER*; With One Tube Each, Nos. 4, 6, 8 and 10; Weight per doz about 11 lbs..Per Dozen, $13.40
One-half Dozen in a Wood Box.

Extra Tubes for No. K44 Punches.....Per Dozen, 2.30
Packed Loose.

OAK LEAF*

REVOLVING, 4 TUBE. Full Polished Cast Iron Handles and Jaws, Tempered Tool Steel Tubes; Tempered Steel Spring Riveted to Handle.

Per Dozen
No. E26—OAK LEAF*; With One Tube Each, Nos. 4, 6, 8 and 10; Weight per dozen about 9 lbs..... 6.30
One-half Dozen in a Cardboard Box.

Extra Tubes for No. E26 Punches 1.90
Packed Loose.

BAY STATE*

REVOLVING, 4 TUBE. Polished Steel Handles and Frame; Tempered Steel Tubes; Springs Coiled Around Rivet at Joint and Extend Back in Concave Handles

Per Dozen
No. B384—BAY STATE*; 8 IN.; With One Tube Each, Nos. 4, 5, 6 and 7, Weight per dozen about 7 lbs..... $8.70
One-half Dozen in a Cardboard Box.

Extra Tubes for No. B384 Punches 1.70
Packed Loose.

No. 156.

OSBORNE'S, SADDLERS' REVOLVING.

Full Polished Cast Steel Handle and Jaws; Best Grade Tempered Tool Steel Tubes; Tempered Steel Spring Riveted to Handle.

Per Dozen
No. 155—OSBORNE'S Revolving; 4 Tubes; With One Tube Each Nos. 3, 4, 5 and 6; Weight dozen 5 lbs... $31.00
No. 156—OSBORNE'S Revolving; 6 Tubes; With One Tube Each, Nos. 1, 2, 3, 4, 5 and 6; Weight doz. 9 lbs.. 38.00
One-half Dozen in a Cardboard Box.

LEATHER PUNCHES.

Showing Actual Size of [illegible] Belt [illegible]

KEEN KUTTER*

Forged from Highest Grade Crucible Steel, Tempered and Polished Swaged Point; Gun Metal Finish, Square Shank. Best Made Punches, Mandrel Drawn; Beveled from Outside; Never Clog.

Showing Actual Size of Cuts of Belt Punches

KEEN KUTTER* [illegible]

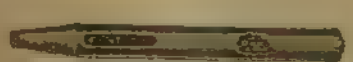
Nos.	K101	K102	K103	K104	K105
Wgt. per doz. abt., lbs.	⅜	⅜	⅜	1¼	1¼
Per dozen	$4.50	4.50	4.50	4.50	4.50
Nos.	K106	K107	K108	K109	K110	K112
Wgt. per doz. abt., lbs.	1¾	1¾	1¾	1¾	2¼	2¼
Per dozen	$4.50	4.50	4.50	4.50	4.50	4.50

Per Dozen

No. K102 6—KEEN KUTTER*; Assorted, Nos. K102 to K106. Weight per dozen about 1⅛ lbs. $4.50

No. K105 8—KEEN KUTTER*; Assorted, Nos. K105 to K108; Weight per dozen about 1¼ lbs. $4.50

No. K107 9—KEEN KUTTER*; Assorted, Nos. K107 to K109. Weight per dozen about 1½ lbs. $4.50



OAK LEAF*

Forged from Special Crucible Round Steel [illegible] Tempered; Polished Taper, Swaged Point; Length 3¾ inches; Satisfactory Tool; Satisfactory Price.

Nos.	E601	E602	E603	E604	E605
Weight per doz. abt., lbs.	1	1	1	1	1
Per dozen	$1.50	1.50	1.50	1.50	1.50
Nos.	E606	E607	E608	E609	E610	E612
Weight per doz. abt., lbs.	1	1⅛	1⅛	1¼	1½	2
Per dozen	$1.50	1.80	1.80	1.80	2.00	2.50

Per Dozen

No. E603 6—OAK LEAF*; Assorted, Nos. E603 to E6[illegible]. Weight per dozen about 1 lb. $1.50

No. E605 8—OAK LEAF*; Assorted, Nos. E605 to E6[illegible]. Weight per dozen about 1 lb. $1.80

No. E607 9—OAK LEAF*; Assorted, Nos. E607 to E609. Weight per dozen about 1 lb. $1.80

One Dozen in a Wood Box.

BAY STATE*.

Forged from Tool Steel, Tempered and Polished Point; Natural Finish Square Shank.

Nos.	B1	B2	B3	B4	B5
Length about, inches	3½	3½	3⅝	3⅝	4
Weight per doz. abt., lbs.	3	3	3	4	4
Per dozen	$1.00	1.00	1.00	1.00	1.00
Nos.	B6	B7	B8	B9	B10	B12
Length about, inches	4¼	4½	4⅝	4⅝	5	5
Weight per doz. abt., lbs.	4	4	4	4	5	5
Per dozen	$1.00	1.80	1.80	1.80	2.50	2.50

Per Dozen

No. B2 6—BAY STATE*; Assorted, Nos. B2 to B6. Weight per dozen about ¾ lb. $1.00

No. B7 9—BAY STATE*; Assorted, Nos. B7 to B9; Weight per dozen about 1⅛ lbs. 1.80

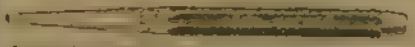
OSBORN'S

Forged from Highest Grade Tool Steel; Tempered, Point; Natural Finish Square [illegible]

Nos.	147/0	147/1	147/2	147/3
Size	0	1	2	3
Weight per doz. abt. lbs.	¾	¾	¾	¾
Per dozen	$5.50	5.50	5.50	5.50
Nos.	147/4	147/5	147/6	147/7	147/8
Size	4	5	6	7	8
Weight per doz. abt. lbs.	1	1	1¼	1¼	1½
Per dozen	$5.50	5.50	5.50	6.50	6.50
Nos.	147/9	147/10	147/11	147/12
Size	9	10	11	12
Weight per doz. abt. lbs.	1½	1¾	1¾	2
Per dozen	$6.50	6.50	7.50	7.50
Nos.	147/13	147/14	147/15	147/16
Sizes	13	14	15	16
Wgt. per doz. abt., lbs.	3¾	3¾	4	4¼
Per dozen	$10.00	10.00	11.00	11.00

One Dozen in a Cardboard Box.

SOLID MACHINE PUNCHES.



KEEN KUTTER* Forged from Highest Grade Crucible Steel, [illegible] Tempered, Regular Taper; Polished Point and Head, Natural Finish Octagon Barrel.

Nos.	K532	K632	K732
Diameter at Point, in.	[illegible]	[illegible]	[illegible]
Diameter of Shank	[illegible]	[illegible]	[illegible]
Length over all, inches	[illegible]	[illegible]	[illegible]
Weight per dozen about, lbs.	5½	7¾	[illegible]
Per dozen	$3.00	4.50	6.50

* One-half Dozen in a Cardboard Box.

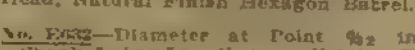
OAK LEAF*

Forged from Special Crucible Steel, Tempered; Regular Taper; Polished Point and Head; Natural Finish Hexagon Barrel.

Per Dozen

No. E532—Diameter at Point 9/32 in.; Diameter of Shank ⅜ in.; Length over all 9 in.; Weight per dozen about 8 lbs. $3.50

One-half Dozen in a Cardboard Box.



OAK LEAF*

[illegible] Forged from Special Crucible Steel, Oil Tempered; Regular Taper; Polished Point and Head; Natural Finish Hexagon Barrel; Diameter of Shank ½ in.; Length over all 6 in.

Nos.	E11	E12	E13	E14	E15	E16
Diameter at Point, in.	9/32	5/16	11/32	3/8	13/32	7/16
Weight per doz. about, lbs.	3¾	3¾	3¾	3¾	3¾	3¾
Per dozen	$2.30	2.30	2.30	2.30	2.30	2.30

Per Dozen

No. E13 16—ASSORTED; ¼ dozen of each Nos. E11, E14, E15 and E16 ..... $2.30

One Dozen in a Cardboard Box.

KEEN KUTTER* BLACK JACK

Forged from Highest Grade Crucible Steel, Oil Tempered; Polished Point, Natural Finish Octagon Barrel, Point Tapers from Barrel to within 1¼ in. of End; Balance of Point Straight. Especially adapted for driving Rivets out of Machinery.

Per Dozen

No. K758—Length 9 in.; Diameter of Shank ⅝ in. Diameter at Point 7/16 in. Weight per dozen about 9½ lbs. $9.00

No. K501—Length 10 in.; Diameter of Shank ⅝ in., Diameter at Point ¾ in.; Weight per dozen about 14 lbs. 8.00

One-half Dozen in a Cardboard Box.

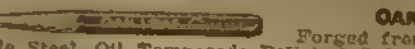
KEEN KUTTER*

Forged from Highest Grade Crucible Steel; Oil Tempered, Polished Point; Natural Finish, Octagon Barrel, Diameter of Shank ⅜ in.; Point Tapers from Barrel to within ⅝ in. of End, Balance of Point Straight; Length over all 6 in.

Nos.	K11	K12	K13
Diameter at Point, inches	9/32	5/16	11/32
Weight per dozen about, lbs.	3¾	3¾	3¾
Per dozen	$2.60	2.60	2.60
Nos.	K14	K15	K16
Diameter at Point, inches	3/8	13/32	7/16
Weight per dozen about, lbs.	3¾	3¾	3¾
Per dozen	$2.60	2.60	2.60

No. K13 16—ASSORTED; ¼ dozen of each Nos. K13 K14, K15 and K16 ..... Per Dozen, $2.60

One Dozen in a Cardboard Box



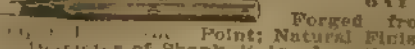
OAK LEAF*

Forged from Special Crucible Steel, Oil Tempered; Polished Point; Natural Finish, Octagon Barrel; Diameter of Shank ½ in.; Length 6 in.

No. E125—Diameter at Point 9/32 in.; Weight per dozen about 5 lbs. ..... Per Dozen, $2.70

No. E126—Diameter at Point 5/32 in.; Weight per dozen about 5 lbs. ..... Per Dozen, $2.70

One-half Dozen in a Cardboard Box.



BAY STATE*

Forged from Tool Steel, [illegible] Point; Natural Finish, Octagon Barrel; Diameter of Shank ⅜ in.; Length over all 6 in.

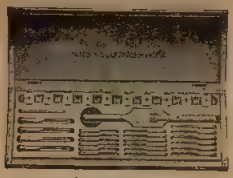
Nos.	B3	B4	B5	B6
Diameter at Point, inches	11/32	3/8	13/32	7/16
Weight per dozen about, lbs.	3¾	3¾	3¾	3¾
Per dozen	$1.70	1.70	1.70	1.70

Per Dozen

No. B3 6—ASSORTED; Two No. B3; Two No. B4; One No. B5 and One No. B6 ..... $1.70

[illegible] Dozen in a Cardboard Box

SCREW PLATES



These Screw Plates, with 12 inch Stocks and Two Part Dies, Cut all Sizes from ¼ to ½ inch, with from 20 to 30 Threads

Per Set

No. 2½S—Ten Part Dies; 1 Tap Wrench, 8 Bicycle Taper Taps, Cutting ¼ 20 to 30 Right; 5-16—20 to 30 Right; ⅜ 20 to 30 Right; ½ —20 and 24 Right; ½ —20 and 24 Left. Weight per Set 5½ lbs $23 10

One Set in a Case

TIRE TESTING TANKS

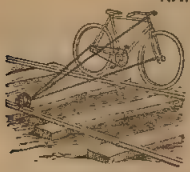
Can be used for Testing Auto Inner Tubes, Bicycle and Motor Cycle Inner Tubes and Tires, very Handy thing to have around Garage or Shop

Each

No. 1—30 inches Long; 6 inches Wide; 8 inches Deep; made of Heavy Galvanized Iron, with Two Heavy Foot Rests, Adjustable Supporting Rod; Brass Clamp and Set Screws $5.50

Six in a Crate; Weight per Crate 56 lbs

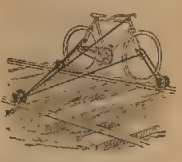
RAILROAD ATTACHMENTS



Each

No. 1—Designed for the Use of Those who are Compelled to Ride Either on Street or Railroad; Easily Attached, takes but Little Room when Telescoped; Double Flanged Wheel Connected with Bicycle by Rigid Triangle of Three Braces; Guides Bicycle Perfectly; Weight 10 lbs.... . $13 00

One in a Package



Each

No. 2—Intended for Those who have to Carry More or Less of a Load when Riding; Braces Telescope when not in Use; Auxiliary Wheels are Raised and Secured when on the Street. Small Wheels are Double Flanged and Hold the Bicycle Upright. A Good Attachment for Railroad Men; Weight 20½ lbs..... $10 50

One in a Bundle

BICYCLE STANDS

Galvanized Steel Sidewalk Racks. Floor Space Required 20 x 23 inches, Blank Space for Dealers' Sign, 7½ x 21 inches Accommodates Eleven Wheels.

Each

No. 10—Weight Each 10 lbs $6.60

Loose

MYERS

Galvanized Steel Stands Thoroughly Well Made from Stock 3-16 inch Thick and ¾ inch Wide; Adjustable by Means of Notches, Bar Reaching from One Frame to a Opposite One, from 12 to 15 inches. Stands 16 inches High; Measurement at Top 4½ inches, at Bottom 11 inches; can be Used with any Size or Style of Bicycle. Per Dozen

No. 11—Weight Each 7 lbs $16 50

Loose

This Stand can be Fitted to any Bicycle with or without Mud Guards; Furnished with two Latches or can be Attached to Rear Hub and the other to Mud Guard. Can be Raised or Lowered with Foot and Locks Automatically.

Each

No. 12—Made of Drop Forged Steel Channel, Drop Forged Arms; Black Japanned Height 18½ in., Width at Bottom 10 inches; Complete with Bolts and Nuts, Weight each 2 lbs $2 90

Loose

BENCH DRILL PRESSES

MILLERS FALLS

Constructed of Steel and Iron,

Japanned Finish

Sensitive Compound Lever Feed.

Height of Standard above Bench

15½ Inches.

NOTE—This Press is Furnished complete as shown in Illustration The Drilling Attachment is permanently fixed.

Each

No. 23—With Star Chuck, holding and Centering accurately Round Shank Drills from 0 to 3/4 inches in Diameter, . istance from Chuck to Table when Chuck is raised to highest point, 6½ inches; Weight 9 lbs.. . . . . **$5.50**

One in a Box.

NOTE—This Press is not Furnished complete as shown in Illustration; in other words, the Hand Drill is not included in the price of Press; Hand Drills must be purchased separately.

Each

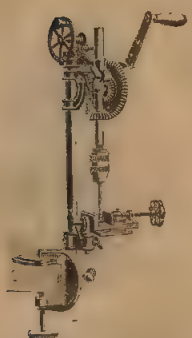
No. 22—Will hold any Millers Falls Hand Drills except Nos. 4, 04, 4D and 7, has Adjustable Clamp to hold Drill, Height between Chuck and Table when Chuck is raised to its highest point varying from 6½ to 7½ inches, according to Drill used; Weight 8 lbs. **$3.80**

One in a Box

HAND DRILL PRESSES

MILLERS FALLS

UNIVERSAL

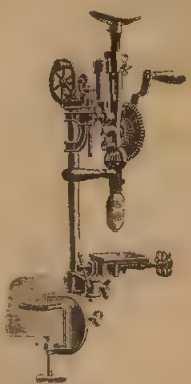


Sensitive Hand Feed

Drill may be Swiveled into many positions and Clamped at Varying Heights, either above or below the Bench

Vise swung on Pin **off Center**, permitting its use in many positions; may be used horizontally, on an Angle or reversed and table turned uppermost

Height of Standard, 24 inches



NOTE—This Press is Furnished Complete as shown in Illustrations. The Drilling Attachment is Permanently Fixed. Has Changeable Speed from even to 3 to 1. Extensible Crank with Radius from 5 to 6½ inches. Star Chuck for Round Shanks from 0 to ½ inch in Diameter.

Each

No. 31—Net Weight 31 lbs **$11.05**

One in a Case. Shipping Weight 30 lbs

NOTE—This Press is not Furnished complete as shown in Illustration; in other words, the Breast Drill is not included in the price of the Press. Breast Drills must be Purchased separately.

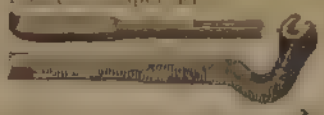
Each

No. 30—Will hold Millers Falls Breast Drills Nos. 10, 10A, 11, 12, 12A. 012 and 18, Net Weight 19 lbs.. . . . . **$6 30**

One in a Case. Shipping Weight 28 lbs

CLAW BARS.

Forged Steel, Oiled Finish; Round Body, with Squared Lower End; Tempered Claw and Tempered Bent Pinch Point; Upper End Per Pound



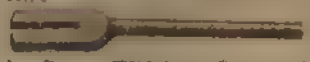
No. 26—GOOSE NECK-PATTERN RAILROAD; Length about 5 ft., Weight each about 29 lbs. $0.14

No. 28 — VERONA PATTERN RAILROAD; With Heel; Length about 5 ft., Weight each about 29 lbs.....$0.14

Packed Loose.

RAIL FORKS.

Forged Steel, Japanned Finish; 1¼ in. Round Handle, with Two Flattened Prongs and Chisel Point on Other End Per Pound



No. 3—RAIL FORKS: Opening between Prongs ⅝ in. Wide, 8½ in. Deep, Width at Prongs 3 in.; Length 33 in.; Weight each about 14 lbs..... .....$0.15

Packed Loose.

DIGGING AND TAMPING BARS.

Forged from Round Tool Steel, 1 ¼ in. Diameter, Natural Finish; Width of Blade 3 in., Diameter of Tamping End 2¼ in.

Per Dozen

No. DT—6 ft. Long; Weight per doz. about 200 lbs..$26.00

Packed Loose.

RAIL BENDERS

ACME, Jim Crow Pattern.

Heavy Forged Steel Frame, Japanned Finish; With Hook at Each End to Grip Rail, Threaded Steel Bending Screw or Plunger; Belted Steel Crossbar; Heavy Steel Hexagon Nut and Straight Track Wrench for Turning.

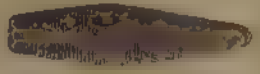
No.	A1
Width at Hook End, in....	28
Length of Screw Bar, in....	18
Will Bend Rail about, lbs..	80 to 100
Weight each about, lbs....	225
Each	[illegible]
No.	A2
Width at Hook End, in.	24
Length of Screw Bar, in..	18
Will Bend Rail about, lbs..	60 to 75
Weight each about, lbs....	175
Each	$29.00

Nos.	A3	A4	A5
Width at Hook Ends, in.....	20	16	14
Length of Screw Bar, in..	17	15	13
Will Bend Rail about, lbs	40 to 50	25 to 30	19 to 20
Weight each about, lbs	[illegible]	85	70
Each.....	$22.00	18.50	14.00

Packed Loose.

TRACK CHISELS.

VERONA.



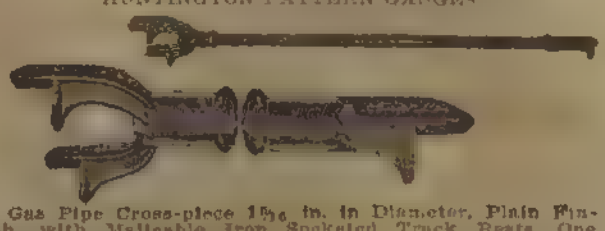
Extra Grade Crucible Forged Steel, Oil Finished, Oval Eye and Slightly Octagon Tapering Poll. Extra Oil Tempered; 1¼ in. Curved Cold Chisel Bit; Average Length 9 in.

Nos.	A3	A4	A5
Weight each, lbs.	[illegible]	[illegible]	[illegible]
Per pound.	$0.25	.25	.25

Packed Loose.

TRACK GAUGES.

HUNTINGTON PATTERN GAUGES



Gas Pipe Cross-piece 1⅝ in. in Diameter, Plain Finish, with Malleable Iron Socketed Track Rests. One Arched, with Double Bearing on Track, the other Plain, with Single Bearing on Track; Standard Gauge, 4 ft. 8½ in. between Rails.

BUDA: PIPE THREADED AND RIVETED INTO 3½ IN. SOCKET, with Machined Openings; Milled Track Bearings. Per Dozen

No. BH—NOT INSULATED; Weight per doz. about 150 lbs. $28.50

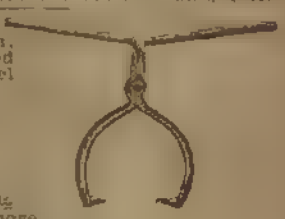
One-half Dozen in a Bundle

CARRYING TONGS.

RAILROAD.

Forged Steel, Japanned Finish; 1¼ in. Round Handles, Squared Arms, Hinged on Heavy Steel Rivet.

No. 20—For 35 to 100 lb. Rail, with Blunt Oval Grip. Extreme Spread of Handles, Closed, 36 in., Drop, from Handles to Jaws, 12 in., Weight each about 10 lbs.....Per Pound, $0.15



RAILROAD TIE.

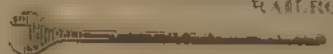
Forged Steel, Japanned Finish, 1¼ in. Round Handles; Squared Arms, Hinged on Heavy Steel Rivet.

No. 21—Wide Pronged Grip; Extreme Spread of Handles Closed, 32 in.; Drop, from Handles to Points, 14 in.; Weight each about 13 lbs.....Per Pound, $0.11½

Packed Loose.

TRACK WRENCHES.

RAILROAD.



Drop Forged Steel, Painted Finish, Oval Body, with Flattened Ends.

STRAIGHT SINGLE END.

Nos.	413/16	415/16	416½
For Nut, in.	1⅝	1⅞	1¾
Length, in.	20	22	24
Weight each about lbs.	[illegible]	[illegible]	[illegible]
Per pound.....	$0.14	.14	.14

RAILROAD.

Drop Forged Steel, Painted Finish, Oval Body, with Flattened Ends.

CURVED OR "S" PATTERN, DOUBLE END.

Nos.	2154	2154½
For Nut, in	1⅛ and 1⅜	1⅛ and 1½
Length, in	24	24
Weight each about, lbs.	5½	5½
Per pound.....	$0.18	.18

STRAIGHT, DOUBLE END.

Nos.	2514	2514½
For Nut, in.	1⅛ and 1⅜	1⅛ and 1½
Length, in.	24	[illegible]
Weight each about, lbs.	5½	5½
Per pound.....	[illegible]	.18

Packed Loose.

SPIKE MAULS.

Crucible Forged Steel, Oiled Finish; With Oval Eye and Hardened Polished Faces; One Large and One Small Face.

LONG BARREL PATTERN, RAILROAD. Slightly Octagon Tapering Polls.

Nos.	220	228	2210	2212
Weight each about, lbs...	6	8	10	12
Length about, in.	10½	11½	12½	13
Per pound.	$0.14	.14	.14	.14

PITTSBURG PATTERN, RAILROAD Round Polls

Nos.	246	248	2410	2412
Weight each about, lbs	[illegible]	[illegible]	10	12
Length about, in.....	13	[illegible]	[illegible]	16
Per pound.....	$0.15	.15	.15	.15

Packed Loose.

TRACK PUNCHES.

Special Crucible Forged Steel, Oiled Finish; With Oval Eye and Slightly Octagon Tapering Poll; Extra Oil Tempered.

RAILROAD Tapering to ⅝ in. Square Punching End.

Nos.	124	1246	125
Weight each, lbs.....	[illegible]	[illegible]	[illegible]
Length about, in.	[illegible]	[illegible]	[illegible]
Per pound	$0.25	.25	.25

Packed Loose.

TRACK CHISELS.

RAILROAD. 1¼ in. Curved Cold Chisel Bit.

Nos.	144	1446	145
Weight each, lbs	[illegible]	[illegible]	[illegible]
Length about,	[illegible]	[illegible]	[illegible]
Per pound	$0.25	.25	.25

Packed Loose.

COAL MINERS' TOOLS.

NEEDLES.

Polished; ¼ in. Diameter at Top, Tapering to Point; Ring Handle 3⅝ in. Inside Diameter. Per Dozen

No. 6 S—STEEL; 6 ft. Long; Weight per dozen about 24 lbs. $6.40

No. 6 C—COPPER; 6 ft. Long; Weight per dozen about 48 lbs. $37.00

BLASTING BARRELS.

Wrought Iron, Natural Finish; 1 25/32 in. Outside Diameter; ⅛ in. Hole. Per Dozen

No. 15—Length 6 ft.; Weight per dozen about 20 lbs. ... $5.00

SINGLE BIT DRILLS.

Forged Steel, Natural Finish; 1 in. in Diameter; With Tamper on One End and 8⅛ in. Tool Steel Bit on the Other; 2¼ in. Cut. Per Dozen

No. 20—All Steel; 6 ft. Long; Weight per doz. about 144 lbs. $15.00

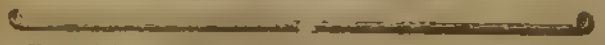
No. 25—With 6 in. Copper Tamper; 6 ft. Long; Weight per dozen about 180 lbs. $42.00

DOUBLE BIT DRILLS.

Forged Steel, Natural Finish; 1 in. Diameter; With Steel Bit at Each End; 8⅛ in. Long; 2¼ in. Cut. Per Dozen

No. 30—6 ft. Long; Weight per dozen about 168 lbs. .. $16.00

DOUBLE END SCRAPERS.

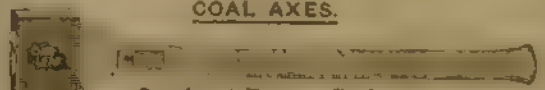


Forged Steel, Natural Finish; ⅜ in. Diameter, Width of Turned Scraping Ends 1 in. Per Dozen

No. 40—Length 6 ft.; Weight per dozen about 27 lbs. .. $4.50

Packed Loose

COAL AXES.



OAK LEAF* Dayton Coal Axe.

Soft Steel Body; Hardened Poll; Crucible Forged Steel and Tempered Raised Bit, Body Painted Red, Polished Bit.

No. C1206/Z—With No. SC/2 Medium Quality 28 in.; Oval Straight Hickory Handle

Weights in a Box, Assorted, lbs.	3 to 4	3½ to 4½
Shipping Weight per doz. about, lbs.	50	55
Per dozen	$17.00	17.50

No. C1206/Y—With No. SCA Select 28 in. Oval Straight Hickory Handle.

Weights in a Box, Assorted, lbs.	3 to 4	4½ to 5½
Shipping Weight per doz. about lbs.	50	55
Per dozen	$18.50	19.00

One dozen in a Crate.

COAL WEDGES.

Solid Forged Highest Grade Crucible Steel, Oil Tempered and Oil Finished.

KEEN KUTTER BLACK JACK*—REGULAR PATTERN.

Nos.	KBD1½	KD2	KD2½	KD3
Weight each, lbs.	2	2	2½	3
Length over all, in.	7½	8	8¾	9
Per lb.	$0.17	.17	.17	.17

BEALL BROS.* PATTERN

Solid Forged Steel, Oil Finished and Tempered

Nos.	BR1½	BR2	BR2½	BR3
Weight each, lbs.	1½	2	2½	3
Length over all, in.	7¾	8¾	9¾	11
Per lb.	$0.16	.16	.16	.16

STANDARD; REGULAR PATTERN.

Solid Forged Steel, Oil Finished; Hardened Head and Poll

Nos.	C 1½	C/2	C 2½	C 3
Weight each, lbs.	1½	2	2½	3
Length over all, in.	8¼	8½	9	10
Per lb.	$0.12	.12	.12	.12

Packed in Half-barrels and Boxes of Assorted Sizes, from 400 to 500 lbs.

COAL MINERS' TOOLS.

COAL SLEDGES.

KEEN KUTTER*

Forged from High Grade Tool Steel, Hardened; Black Finish with Polished Face.

Nos.	KG4	KG5	KG6	KG7
Weight each, lbs.	4	5	6	7
Length over all, inches	7½	8¾	9	9¼
Per 4lb.	$0.22	.17	.17	.17

STANDARD

Solid Forged Steel, Oil Finished, with Hardened and Polished Face.

Nos.	G4	G4½	G5	G6	G7	G8
Weight each, lbs.	4	4½	5	6	7	8
Length over all, in.	7½	7½	8¾	9	9¼	9¼
Per lb.	$0.18½	.18½	.14½	.14½	.14½	.14½

Packed Loose

COAL MINERS' PICKS.

KEEN KUTTER* ALTON PATTERN

Soft Steel Body; With Extra Full Weight Highest Grade Crucible Forged Steel Points, Oil Tempered Japanned Finish; Are Guaranteed to be the Very Highest Grade that Can be Produced.

KEEN KUTTER* UNDERMINING, SHORT EAR.

Nos.	KUS/1¾	KUS/2	KUS/2¼	KUS/2½
Weight each, lbs.	1¾	2	2¼	2½
Length over all, in.	16½	16	17	17½
Per dozen	$9.50	9.50	9.50	9.50

KEEN KUTTER* UNDERMINING; LONG EAR.

Nos.	KUL1¾	KUL2	KUL2¼	KUL2½	KUL2¾
Weight each, lbs.	1¾	2	2¼	2½	2¾
Lgth over all, in.	16	16½	17	17¼	17¾
Per dozen	$10.00	10.00	10.00	10.00	10.00

KEEN KUTTER* CUTTING, SHORT EAR.

Nos.	KCS/2	KCS/2¼	KCS/2½	KCS/2¾
Weight each, lbs.	2	2¼	2½	2¾
Length over all, in.	14	15	15	15½
Per dozen	$9.50	9.50	9.50	9.50

Nos.	KCS/3	KCS/3¼	KCS/3½
Weight each, lbs.	3	3¼	3½
Length over all, in.	15½	16	16½
Per dozen	$9.50	9.50	9.50

KEEN KUTTER* CUTTING; LONG EAR.

Nos.	KCL2¼	KCL2¾	KCL3	KCL3¼
Weight each, lbs.	2¼	2¾	3	3¼
Length over all, in.	14½	15	15¼	15¼
Per dozen	$10.00	10.00	10.00	10.00

Packed Loose.

OAK LEAF*

Soft Steel Body; Full Weight Special Crucible Forged Steel Points, Oil Tempered, Oil Finish

ALTON PATTERN

OAK LEAF* UNDERMINING, SHORT EAR.

Nos.	EUS/1¾	EUS/2	EUS/2¼	EUS/2½
Weight each, lbs.	1¾	2	2¼	2½
Length over all, in.	16½	16¾	17	17¼
Per dozen	$7.40	7.40	7.40	7.40

OAK LEAF* UNDERMINING; LONG EAR.

Nos.	EUL1¾	EUL2	EUL2¼	EUL2½	EUL2¾
Weight each, lbs.	1¾	2	2¼	2½	2¾
Lgth over all, in.	15½	17	17	17½	17¾
Per dozen	$8.10	8.10	8.10	8.10	8.10

OAK LEAF* CUTTING; SHORT EAR.

Nos.	ECS/2	ECS/2¼	ECS/2½	ECS/2¾
Weight each, lbs.	2	2¼	2½	2¾
Length over all, in.	13½	14¾	15	15¼
Per dozen	$7.40	7.40	7.40	7.40

Nos.	ECS/3	ECS/3¼	ECS/3½
Weight each, lbs.	3	3¼	3½
Length over all, in.	15¾	16	16
Per dozen	$7.40	7.40	7.40

OAK LEAF* CUTTING; LONG EAR.

Nos.	ECL2¼	ECL2¾	ECL3	ECL3¼
Weight each, lbs.	2¼	2¾	3	3¼
Length over all, in.	15	15	15¾	16
Per dozen	$8.10	8.10	8.10	8.10

Packed Loose.

CATCHERS' MITTENS.

REACH'S.

Laced Pocket, Laced Trimmed Border, Laced Thumb, Strap and Buckle Fastening at Wrist.

No. 7A

Per Dozen

No. 7A—PROFESSIONAL; MOULDED PATTERN; SPECIAL LACED; Finest Quality BLACK CALFSKIN; Face and Strap Made of One Piece; Inside Hump; Padded with Asbestos Felt $128.00

No. 6A—PROFESSIONAL MOULDED PATTERN; SPECIAL LACED; MEN'S SIZE; CRAVEN TAN CALFSKIN, Face and Strap Made of One Piece; Padded with Asbestos Felt $128.00

Per Dozen

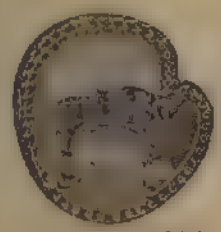
No. 3A—SPECIAL MOULDED PATTERN; LACED; MEN'S SIZE; BLACK CALFSKIN Face and Back, with Asbestos Felt $112.00

Per Dozen

No. 32—LACED; MEN'S SIZE; FINEST OLIVE GRAIN CALFSKIN Throughout; Padded with Asbestos Felt, Weight per dozen about 25 lbs. $56.00

No. A8—LACED; MEN'S SIZE; Best Quality PEARL COLORED CALFSKIN Face and Back; OLIVE CALFSKIN Strip and Fingers; Inside Hump; Padded with Asbestos Felt 30.00

No. 30—LACED; MEN'S SIZE; Best Quality, MOUSE COLORED BUCK LEATHER, Laced, Moulded Model; Padded with Asbestos Felt 24.00



Back of BN and DN

Per Dozen

No. BX—LACED; MEN'S SIZE; OLIVE BUCKSKIN Throughout Sole Leather Finger Protector $56.00

No. BN—LACED; MEN'S SIZE; Good Quality BLACK CALFSKIN Throughout 48.00

No. DN—LACED; MEN'S SIZE; BLACK CALFSKIN Throughout, Sole Leather Finger Protector 40.00

Laced Thumb; Deep Pocket; Strap and Buckle Fastening at Wrist.

Per Dozen

No. 200—LACED; MEN'S SIZE; MOUSE COLOR BUCKSKIN Face and Fingers; CRAVEN TAN LEATHER BACK AND STRIP $32.00

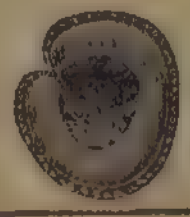
No. 20N—LACED; MEN'S SIZE; BLACK CALFSKIN Face and Fingers; BLACK TAN LEATHER Back; TAN LEATHER Strip 32.00

Per Dozen

No. 150—LACED; MEN'S SIZE, PEARL COLOR LEATHER Face, Strip and Fingers; CRAVEN TAN LEATHER Back; Welted Strap and Buckle at Wrist; New Thin Model $24.00

No. FPN—LACED, MEN'S SIZE; OLIVE GREEN LEATHER Face, Back and Fingers; Tan Leather Strip 14.00

No. 19—LACED, MEN'S SIZE, BROWN TAN LEATHER Face, Back and Fingers; Olive Tan Leather Strip 16.80



Per Dozen

No. 125—LACED; MEN'S SIZE; BROWN TAN LEATHER Face, Fingers, Strap and Back; Strap and Buckle at Wrist; New Model $20.00

One-twelfth Dozen in a Cardboard Box. Weight per Dozen about 25 lbs.

CATCHERS' MITTENS.

REACH'S.

Laced Thumb, Deep Pocket, Strap and Buckle Fastening at Wrist

Per Dozen

No. 100—MEN'S SIZE; BLACK TAN LEATHER Face, Back and Fingers; CRAVEN LEATHER STRIP; Laced Thumb; Deep Pocket, Laced Wrist $12.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about ...

Per Dozen

No. 65—MEN'S SIZE; BROWN TAN LEATHER Face, Back and Fingers; OXBLOOD STRIP; Laced Thumb; Deep Pocket; Laced Wrist Fastening $8.00

One-quarter Dozen in a Cardboard Box; Weight per Dozen about 20 lbs.

Per Dozen

No. 6P—LACED; YOUTHS' SIZE; CRAVEN TAN LEATHER Face and Fingers; PERSPIRATION-PROOF BACK OXBLOOD STRIP; Laced Thumb; Deep Pocket; Laced Wrist Fastening $8.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 20 lbs.

Per Dozen

No. M—YOUTHS' ASSORTED BROWN AND CRAVEN TAN LEATHER Face and Fingers; PERSPIRATION-PROOF BACK OXBLOOD STRIP, Laced Thumb; Deep Pocket; Laced Wrist Fastening $3.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 10 lbs.

BASEMEN'S MITTENS.

REACH'S

Per Dozen

No. 4L—NEW MODEL; LACED; MEN'S SIZE; Made of Heavy [illegible] CALFSKIN, with [illegible] Bound, Strap and Buckle Fastening at Wrist $48.00

No. R—LACED; MEN'S SIZE, MOUSE COLORED BUCKSKIN Face; Brown Tan Leather Back; Deep Pocket; Laced Thumb and Strap and Buckle Fastening at Wrist 32.00

No. BN—LACED; MEN'S SIZE; BLACK CALFSKIN Face, Black Tanned Leather Back, Padded with Felt; Laced Thumb, Trifle Hump and Deep Pocket; Strap and Buckle Fastening at Wrist 32.00

No. 2RN—LACED; MEN'S SIZE, HEAVY BLACK SELECTED CALFSKIN Face and Back, Laced Thumb, Deep Pocket, Strap and Buckle Fastening at Wrist 24.00

No. 3R—LACED; MEN'S SIZE; CRAVEN TAN LEATHER Throughout, Laced Thumb; Deep Pocket; Laced Wrist Fastening 16.00

No. 3RN—LACED; MEN'S SIZE; BLACK TANNED LEATHER Face, Laced Thumb, Deep Pocket; Laced Wrist Fastening 16.00

Per Dozen

No. 4/S—SPECIAL LACED; MEN'S SIZE; FINEST BROWN FRENCH CALFSKIN; Laced Thumb; Deep Pocket, Padded with Asbestos Felt [illegible] Strap and Buckle Fastening at Wrist $84.00

No. S—SPECIAL LACED; MEN'S SIZE; FINEST DEAD BUCKSKIN; Laced Thumb, Padded with Asbestos Felt, Laced Thumb, Deep Pocket, Strap and Buckle Fastening at Wrist 24.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 10 lbs.

FINGER GLOVES.

LEATHER.

FIELDERS' AND BASEMEN'S.

No. 0BL.

Wool Felt Padding; Deep Pocket; Leather Lined; Leather Bound; Strong Button; Fastening at Wrist; Web Thumb.

Per Dozen

No. 0BL—MEN'S SIZE; HIGHEST QUALITY DEAD BUCKSKIN $54.00

No. 64—MEN'S SIZE; PEARL GRAIN CALFSKIN [illegible] 30.00

One-twelfth Dozen in Cardboard Box. Weight per Dozen about 8 lbs.

FINGER GLOVES.

REACH'S.

FIELDERS' AND BASEMEN'S.

Button Fastening at Wrist.

Professional Pattern; Deep Pocket; Wool; Welted Seams; Leather Bound.

Per Dozen

No. 0BN—MEN'S SIZE; BLACK HORSE HIDE; Leather Lined; Web Thumb $54.00

No. 0B—MEN'S SIZE; FINE QUALITY DRAB BUCKSKIN; Felt Lined, Web Thumb 48.00

No. 01—MEN'S SIZE; HIGHEST QUALITY OLIVE BEACO CALFSKIN, Leather Lined 48.00

No. 02—MEN'S SIZE, BROWN CALFSKIN, Felt Lined, Web Thumb.. 48.00

No. 03A MEN'S SIZE HIGHEST QUALITY Light [illegible] Leather Lined, Web Thumb 40.00

No. 04W MEN'S SIZE HIGHEST QUALITY MOUSE [illegible] BUCKSKIN Leather Lined, Web Thumb 40.00

No. 04 MEN'S SIZE, HIGHEST QUALITY BROWN FRENCH CALFSKIN; Leather Lined; Web Thumb. 40.00

No. 05—MEN'S SIZE; HIGHEST QUALITY BLACK CALFSKIN; Leather Lined; Web Thumb..... 40.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 8 lbs.

MEN'S SIZE; Web Thumb; Inside Hump Deep Pocket, FULL LEATHER Lined; Welted Seams, Large Model

Per Dozen

No. 8W—PEARL COLORED CALFSKIN $32.00

No. 8WN—SELECTED BLACK BEACO 32.00

Per Dozen

No. 36—MEN'S SIZE, MOUSE COLORED BUCKSKIN; Web Thumb Leather Bound and Leather Lined Welted Seams $32.00

No. 36N—MEN'S SIZE, BLACK GRAIN LEATHER; Web Thumb INSIDE HUMP; Deep Pockets Leather Lined; Welted Seams.. 25.20

No. 2L—MEN'S SIZE; PEARL COLORED LEATHER; Web Thumb, Leather Lined and Leather Bound Welted Seams 25.20

No. 2G—MEN'S SIZE; MOUSE COLORED LEATHER, Web Thumb; INSIDE HUMP; Deep Pocket; Leather Lined; Welted Seams 24.00

No. 2N—MEN'S SIZE; BLACK LEATHER; Web Thumb, INSIDE HUMP; Deep Pocket, Palm Leather Lined, Welted Seams 20.40

No. 2G—MEN'S SIZE; DRAB IMITATION BUCKSKIN Web Thumb; Welted Seams; Leather Bound and Leather Lined 20.40

No. 50—MEN'S SIZE; OLIVE GREEN LEATHER, Tan Welted Seams; Web Thumb; Deep Pocket; Leather Palm Lining 16.80

No. 10G—MEN'S SIZE, BROWN TAN SHEEPSKIN, Web Thumb; Palm, Leather Lined, Welted Seams..... 16.00

No. 10N—MEN'S SIZE; HEAVY BLACK SHEEPSKIN Web Thumb; Palm, Leather Lined; Welted Seams.. 16.00

No. 11G—MEN'S SIZE; DRAB GRAIN LEATHER; Web Thumb; INSIDE HUMP; Deep Pocket; Palm Leather Lined; 16.00

Per Dozen

No. 54N—MEN'S SIZE; BLACK TAN LEATHER; Felt Padded Palm Leather Lined; Welted Seams; Web Thumb; Cloth Bound $12.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 6 lbs

Per Dozen

No. 18—MEN'S SIZE; BROWN TAN LEATHER, INSIDE HUMP; Web Thumb; Half Palm Leather Lining $7.50

One-quarter Dozen in a Cardboard Box; Weight per Dozen about 4 lbs.

No. 12G—BOYS' SIZE; PEARL COLORED SHEEPSKIN; Web Thumb; Half Leather Palm Lining [illegible] 5.00

No. 21—BOYS' SIZE BROWN TAN LEATHER, Web [illegible] Deep Pocket; Leather Palm Pad 4.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 3 lbs

CATCHERS' MASKS.

SIMMONS, AMERICAN.

EXTRA FINE QUALITY; Heavy Electric Welded Frame, Latest Construction—No Wire in Center to obstruct the Vision; Solid Joints making it practically One Piece of Steel absolutely impossible to Break; Dull Black Rubber Finish, Long Face Pads, made of Finest Kid Leather Stuffed with Hair and Fine Elastic Wool Felt, making the Best possible Bearing for the Face; Neatly Laced to the Frame; Combination Heavy Leather Sun Shield and Forehead Rest, Moulded Chin Rest; Improved Head Strap, which facilitates the Quick Removal of the Mask—a feature every Catcher will appreciate; A Perfect Fitting and Comfortable Mask

Per Dozen

No. 42 0—MEN'S REGULATION LEAGUE MASK. Weight per dozen about 27 lbs..... $78.00

EXTRA FINE QUALITY; Heavy Electric Welded Frame, with Ear Protectors; Latest Construction—No Wire in Center to obstruct the Vision; Solid Joints Making it practically One Piece of Steel absolutely Impossible to Break; Dull Black Rubber Finish; Horse Shoe Shaped Face Pad, made of Finest Kid Leather, Stuffed with Hair and Fine Elastic Wool Felt, making the Best possible Bearing for the Face and Forehead Neatly Laced to the Frame; Moulded Chin Rest; Improved Head Strap which facilitates the Quick Removal of the Mask—A feature every Catcher will appreciate, A Perfect Fitting and Comfortable Mask

Per Dozen

No. A0—MEN'S REGULATION LEAGUE MASK; Weight per dozen about 24 lbs. $54.00

Electric Welded Frame with all its [illegible] and strength; Latest Construction—No Wire in Center to obstruct the Vision; Dull Black Enamel Finish; Face Pads of Soft Leather Wool [illegible] Best Quality Kid Leather, Stuffed with Light Wool Felt; Neatly Laced to the Frame; Double Elastic Leather Tipped Head Band; A Perfect Up-to-date Mask.

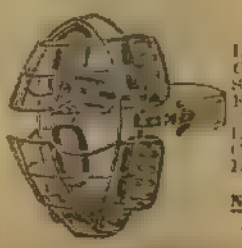
Per Dozen

No. 41—MEN'S REGULATION LEAGUE MASK; Weight per dozen about 24 lbs $48.00

Electric Welded Frame; Solid Joints like one Piece of Steel; no Unnecessary Weight; Latest Construction—No wire in Center to obstruct the Vision; Dull Black Enamel Rubber Finish; Long Face Pads, made of Best Quality Kid Leather, Stuffed with Light Wool Felt; Riveted Moulded Chin Rest; Pads Neatly Laced to Frame, Double Elastic Leather Tipped Head Band.

Per Dozen

No. 43—MEN'S REGULATION SIZE; Weight per dozen about 28 lbs..... $40.00



Heavy Electric Welded Frame, Latest Construction No Wire in Center to Obstruct the Vision, Solid Joints, Dull Black Finish, Four Fine Leather Hair Stuffed Pads Neatly Laced to Frame, Leather Forehead Rest, Moulded Chin Rest Single Adjustable Head Band

Per Dozen

No. 44—AMATEUR SIZE; Weight per dozen about 18 lbs..... $27.00

[illegible] Dozen in a Cardboard Box.

CLOCKS.

OFFICE

OCTAGON LEVER

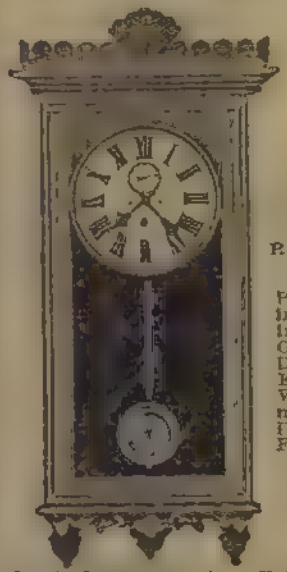
Walnut Veneered Case; Glass Door; Roman Figures.

Each

No. 227T—8-DAY, TIME, 7½ in ... Size of Case 11x11 in.....$5.00

No. 228T—8-DAY, TIME, 12 in ... Size of Case 15x15 in 7.00

One in a Cardboard Box. Weight per Case about 6 lbs.



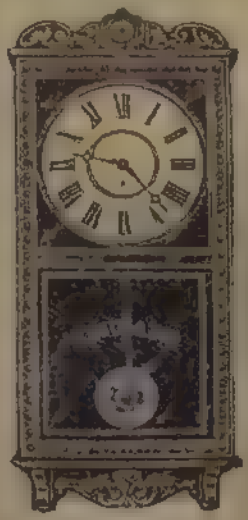
REGULATOR

Oak Case, Polished; 48 in High, 20¾ in. Wide Glass Door; Dead Beat Escapement, Weight Movement; 12 in Dial; Roman Figures.

Each

No. 18 Regulator—8-DAY, TIME..$24.00

One in a Case; Wgt. Each abt. 45 lbs.



GRAND

Oak Case, Polished, 32 in High, 16½ in Wide, 12 in Dial, Gilt Figures

No. 200T—8-DAY, TIME $6.50

No. 200/C8—8-DAY, HALF-HOUR STRIKE, CALENDAR..... 8.00

One in a Case; Wgt. Each abt. 30 lbs.

(Made by Waterbury Clock Co.)

CLOCKS.

OFFICE

ETON W

Oak Case; 20¼ in. High; 16 in Wide; Glass Door; 8 in. Dial, Roman Figures

Each

No. 215T—8-DAY, TIME, $10.50

One in a Case; Weight Each about 30 lbs

(Made by Waterbury Clock Co.)

ALARM CLOCKS.

Attached Key and Hand Sets.

CYCLONE

Seamless Metal Case, Height over all 7 in. Depth 2¾ in., 4½ in. Dial, Arabic Figures; Intermittent and Long Alarm, 4½ in. Bell on Back of Clock; Attached Key and Hand Sets; The Alarm will ring 7 minutes without Stopping, but can be stopped at pleasure. The Intermittent Alarm will ring 20 seconds and be silent 20 seconds Alternately for 20 minutes, but can be stopped at pleasure. Plain Glass.

Each

Cyclone, Nickel—8-DAY, TIME, ALARM, ...$3.50

One in a Cardboard Box, 24 in a Case; Weight per Case about 125 lbs

(Made by Waterbury Clock Co.)

SAMPSON

Seamless Brass Case, Nickel Plated Height over all 7¼ in.; Depth 3 in 4½ in. Dial; Arabic Figures; Intermittent Alarm; 4 in. Bell on Back of Clock; Alarm Rings Intermittently every 20 Seconds for 15 Minutes. Also has Alarm or Silent Switch; Plain Glass

Sampson—1-DAY, TIME, ALARM, ... $3.00

One in a Cardboard Box; 24 in a Case; Weight per Case about 85 lbs.

(Made by New Haven Clock Co.)

ALARM CLOCKS.

Attached Key and Hand Sets.

AUTOMATIC, 8-DAY.

Seamless Brass Case, Nickel Plated, [illegible] with 4 in Bell [illegible]; Height over all 7¼ in, [illegible] 4 in. Dial, Arabic Figures; Plain Glass.

Each

Automatic—8 DAY TIME AND 8 [illegible] ALARM $4.30

One in a Cardboard Box, 24 in a Case; Weight per Case about 100 lbs

DIRECTIONS:—When you arise you stop the Alarm ringing by pushing in on the button marked "Stop Alarm." The Automatic 8 Day Alarm automatically operates the push button switches so that you do not need to touch your Clock but once a week to wind the time and alarm springs. This Clock is also fitted with an "Alarm" and "Silent" Switch for use when time only is wanted

(Made by the New Haven Clock Co.)

DISPLAY STANDS.

For Holding One Automatic Alarm Clock.

One of These Stands will be Given Free with an Order for Six Automatic Alarm Clocks.

EARLY BIRD

Seamless Brass Case, Nickel Plated; Height over all 7 in., Depth 2¾ in., 6 in Dial; Arabic Figures, Intermittent and Long Alarm; 4½ in. Bell on Back of Clock; The Alarm will Ring 7 Minutes without Stopping, but can be Stopped at pleasure. The Intermittent Alarm will Ring 20 Seconds and be Silent 20 Seconds Alternately for 20 Minutes, but can be Stopped at pleasure. Plain Glass

Early Bird—1-DAY, TIME, ALARM; Each $3.00

One in a Cardboard Box; 24 in a Case; Weight per Case about 84 lbs.

(Made by Ansonia Clock Co.)

ALARM CLOCKS.

Attached Key and Hand Sets.

CLATTER.

Seamless Metal Case, Nickel Plated; Height over all 6½ in.; Depth 2 in.; 4½ in. Dial, Roman or Arabic Figures; Intermittent and Long Alarm; 3¾ in. Bell on Back of Clock; The Long Alarm will Ring 5 Minutes without Stopping, but can be Stopped at Pleasure. The Intermittent Alarm will Ring 20 seconds and be Silent 20 seconds, Alternately for 15 Minutes, but can be Stopped at Pleasure. Plain Glass.

Each

Clatter—1 DAY, TIME, ALARM, $2.30

One in a Cardboard Box, 50 in a Case; Weight per Case about 120 lbs.

TATTOO ALARM.

Seamless Metal Case, Nickel Plated; Height over all 6 in.; Depth 2¾ in., 4½ in. Dial, Roman Figures; Intermittent Alarm; 4 inch Bell on Back of Clock; Attached Key and Hand Sets. The Alarm will Ring Twenty Seconds and be Silent Twenty Seconds, Alternately, for Fifteen Minutes, but can be Stopped at Pleasure. Plain Glass.

Each

Tattoo—1-DAY, TIME, ALARM..$2.10

One in a Cardboard Box; 50 in a Case; Weight per Case about 110 lbs.

(Made by New Haven Clock Co.)

ALARM.

THE CLOCK WITH THE CONCEALED BELL.

Each

No. 200—PENNANT*; THIRTY HOUR, TIME, ALARM.....$1.80

Indestructible Enameled Iron Case, Assorted Colors: Black, Green and Maroon; Height 5¾ in.; Width at Base 5 in.; Depth 2½ in.; 3½ in. Brass Dial, Dark Green Inlaid Arabic Figures; Wheels Cut from Solid Brass; Polished Steel Pintons, 1¾ in. Concealed Bell; Attached Key and Hand Sets; Twelve Minute Alternating Alarm, with Shut-off Switch; The Alarm will ring for 20 seconds and be silent 15 seconds alternately for 12 minutes, but can be stopped at will; Plain Glass.

One in a Cardboard Box; 24 in a Case; Weight per Case about 75 lbs.

(Made by Waterbury Clock Co.)

ALARM CLOCKS.

Attached Key and Hand Sets

ALARM.

Each

No. 100—PENNANT*; 1-DAY, TIME, ALARM $1.10

Seamless Metal Case, Nickel Plated; Height over all 6¼ in.; Depth 2¼ in.; 2¼ in. Bell on Top of Clock. Wheels Cut from Solid Brass; Polished Steel Pinions; Attached Key and Hand Sets; 4 in. Dial, Arabic Figures; Plain Glass Face; Alarm will Ring 30 Seconds, but can be stopped at pleasure.

One in a Cardboard Box; 50 in a Case; Weight per Case about 65 lbs

LUMINOUS SUNRISE ALARM.

Seamless Metal Case, Nickel Plated; Height over all 6¼ in., Depth 2¼ in., 2¼ in. Bell on Top of Clock; 3½ in. Luminous Dial, Roman Figures; Plain Glass.

Alarm will Ring 25 Seconds.

Luminous Sunrise—1-DAY, TIME, ALARM .....Each, $1.50

One in a Cardboard Box; 50 in a Case; Weight per Case about 65 lbs.

SUNRISE ALARM.

Seamless Metal Case, Nickel Plated; Height over all 5¼ in.; Depth 2¼ in.; 2¼ in. Bell on Top of Clock; 3½ in. Dial, Roman Figures; Plain Glass.

Alarm will Ring 30 seconds.

Each

Sunrise—1-DAY, TIME, ALARM..$1.30

One in a Cardboard Box; 50 in a Case; Weight per Case about 65 lbs.

(Made by Waterbury Clock Co.)

ALARM CLOCKS.

Attached Key and Hand Sets.

DOUBLE CHIMES

Metal Case, Nickel Plated; All Brass Movement; Height over all 7 in.; Depth 2½ in.; 2 in. DOUBLE BELL on Top of Clock; 3½ in. Dial Roman Figures; Has a SECOND HAND; Plain Glass Face.

Alarm will Ring 30 seconds, but can be stopped at pleasure.

No. 3000—1-DAY, TIME, ALARM, Each $1.80

One in a Cardboard Box; 50 in a Case; Weight per Case about 110 lbs.

REPUBLIC ALARM.

Metal Case, Nickel Plated; All Brass Movement; Height over all 6 in.; Depth 2½ in.; 2 in. Bell on Top of Clock; 3½ in. Dial, Arabic Figures; Has a SECOND HAND; Plain Glass Face.

Alarm will Ring 20 seconds, but can be stopped at pleasure; Guaranteed for One Year.

No. 2000—1-DAY, TIME, ALARM, Each $1.10

KING ALARM.

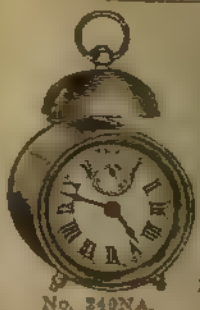
Metal Case, Nickel Plated, All Brass Movement; Height over all 6 in.; Depth 2½ in.; 2 in. Bell on Top of Clock; 4 in. Dial, Roman Figures; Has a SECOND HAND; Plain Glass Face.

Alarm will Ring 20 seconds, but can be stopped at pleasure.

No. 1000—1-DAY, TIME, ALARM, Each $1.10

One in a Cardboard Box; 50 in a Case Weight per Case about 65 lbs

(Made by Kuehl Clock Co.)



No. 240NA.

WASP ALARM

Height over all 4 in.; Depth 1⅝ in.; 1⅝ in. Bell on Top of Clock; 2 in. Dial, Roman Figures.

Alarm will Ring 75 seconds.

No. 240NA—1-DAY TIME, ALARM, Each $2.20

WASP TIME

(Not Alarm.)

Height over all 3 in.; Depth 1⅝ in.

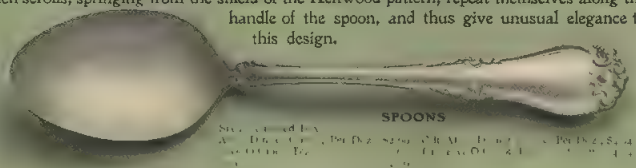
No. 240NT—1-DAY, TIME...Each, $1.40

One in a Cardboard Box; 100 in a Case; Weight per Case abt. 50 lbs.

(Made by Waterbury Clock Co.)

RELIANCE PLATE

Rich scrolls, springing from the shield of the Kenwood pattern, repeat themselves along the handle of the spoon, and thus give unusual elegance to this design.



SPOONS

FLAT HANDLE FORKS

HOLLOW HANDLE ORANGE KNIFE

HOLLOW HANDLE FRUIT KNIFE

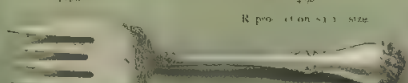
SOLID HANDLE EMBOSSED STEEL KNIVES

HOLLOW HANDLE PIE SERVER

SOLID HANDLE EMBOSSED STEEL FORKS

HOLLOW HANDLE KNIVES

HOLLOW HANDLE FORKS



COLD MEAT FORK

One in Lined Box
Plain Each $3.00 Gilt Each, $1.34

LADLES

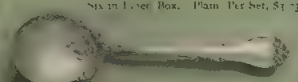
One in Lined Box
Cream Flat, Each $ 80 Gilt Each, $1.03
Gravy " " 1.15 " " 1.42
Med. Soup " " 3.04 " " 3.80

BUTTER KNIFE

Six in Unlined Box Plain, Per Doz., $6.41

FLAT HANDLE BUTTER SPREADER

Six in Lined Box. Plain Per Set, $1.73



SUGAR SHELL

Six in Lined Box
Plain Per Doz., $4.80 Gilt, Per Doz. $7.55

BERRY OR SALAD SPOON

Plain Each $1.42 Gilt, Each $2.16

KENWOOD DESIGN

Reliance Plate Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

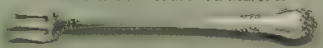
RELIANCE PLATE

SOUP SPOON

One Doz. in Lined Box Per Doz. $6.08

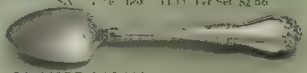
BOUILLON SPOON

Six in Lined Box Plain Per Set $2.56



OYSTER FORK

Six in Lined Box
Plain Per Set $2.33



ORANGE SPOON

Six in Lined Box
Plain Per Set $3.08 Gilt, Per Set, $3.85

INDIVIDUAL SALAD FORK

Six in Lined Box
Plain, Per Set, $3.61 Gilt, Per Set, $5.13

HOLLOW HANDLE FRUIT KNIFE

Six in Lined Box Per Set, $6.84

HOLLOW HANDLE ORANGE KNIFE

Six in Lined Box Per set, $7.41

SUGAR TONGS

One in Lined Box
Plain, Each, $2.24 Gilt, Each, $3.32

FOOD PUSHER

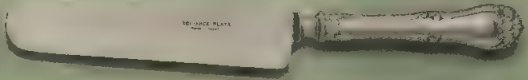
One in Lined Box Each, $.48

PICKLE FORK

One in Lined Box
Plain, Each $.85 Gilt, Each $1.11

BABY SPOON

One in Lined Box
Plain, Each, $.48 Gilt, Each $.70



HOLLOW HANDLE PIE SERVER

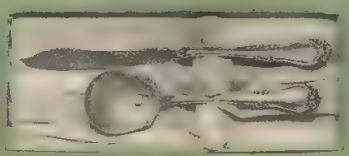
One in Lined Box Each, $2.28

Reproduction one-half size

THREE PIECE CHILD SET One Set in Lined Box

Hollow Handle Knife, Per Set, $2.28
Solid Handle Dessert Knife, " " 1.61
Fruit Spoon, " " 1.52

Reproduction one-third size.



BUTTER KNIFE AND SUGAR SHELL

One Set in Lined Box,
Plain, Per Set $1.06 Gilt, Per Set, 1.32

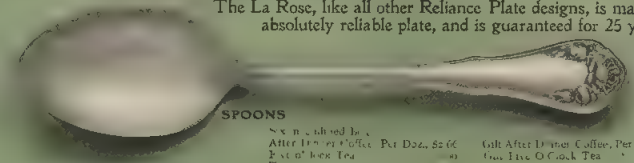
KENWOOD DESIGN

Reliance Plate Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

RELIANCE PLATE

Embossed in strong relief, a half circle of roses relieves the plain shield of the new La Rose Pattern, and gives a beautiful finish to this design.

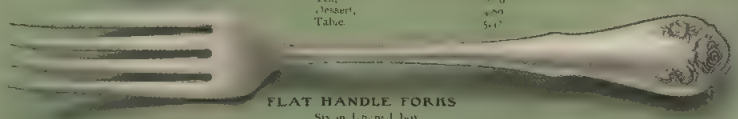
The La Rose, like all other Reliance Plate designs, is made in absolutely reliable plate, and is guaranteed for 25 years.



SPOONS

Six in Lined Box

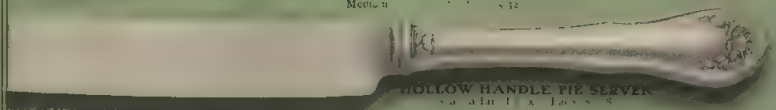
After Dinner Coffee	Per Doz., $2.66	Gilt After Dinner Coffee, Per Doz.,	$4.94
Five O'clock Tea	"	Gilt Five O'Clock Tea "	4.94
Tea,	"		5.60
Dessert,	"		5.80
Table	"		5.40



FLAT HANDLE FORKS

Six in Lined Box

Dessert	Per Doz.,	$4.80
Medium	"	5.32



HOLLOW HANDLE PIE SERVER

Six in Flat Box, Per Set, $8

HOLLOW HANDLE ORANGE KNIFE

Six in Box, Per Set, $

HOLLOW HANDLE FRUIT KNIFE

Six in Box, Per Set, $6.85

SOLID HANDLE EMBOSSED STEEL KNIVES

Six in Lined Box

Medium	Per Doz.,	$6.00
Dessert	"	5.80
Medium Serrated and Swaged	"	6.40
Dessert	"	6.20
Fish,	"	7.50

Reproduction same size.

SOLID HANDLE EMBOSSED FORKS

Six in Lined Box

Medium	Per Doz.,	6.00
Dessert	"	5.80

HOLLOW HANDLE KNIVES

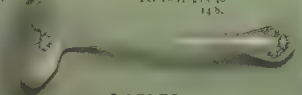
Six in Flannel Roll

Medium,	Per Doz.,	$15.40
Dessert	"	14.80

HOLLOW HANDLE FORKS

Six in Flannel Roll

Medium	Per Doz.,	$14.40
Dessert	"	14.80



COLD MEAT FORK

One in Lined Box

Each, Plain $3.40 Gilt, Each, $3.34

LADLES

One in Lined Box

Cream	Plain Each,	$ 86	Gilt, Each	$1.24
Punch	"	1.60	"	1.72
Medium	"	3.04	"	3.80

BUTTER KNIFE

Six in Lined Box Plain Per Doz. $3.32

SUGAR SHELL

Six in Lined Box

Plain, Per Doz. $4.80 Gilt Per Doz. $ 54

BERRY OR SALAD SPOON

One in Lined Box

Plain Each $ 3.42 Gilt, Each, $4.10

Reproduction not full size

LA ROSE DESIGN

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RELIANCE PLATE

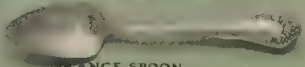
SOUP SPOON

BOUILLON SPOON

Six in Lined Box Plain, Per Set, $2.60

SOLID HANDLE FRUIT KNIFE, EMB

Six in Ribbon Box, Per Doz. $4.00

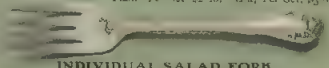


ORANGE SPOON

Six in Lined Box
Plain Per Set $2.25, Gilt, Per Set, $3.00

HOLLOW HANDLE ORANGE KNIFE

Six in Lined Box Per Set, $4.00

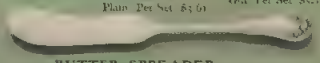


INDIVIDUAL SALAD FORK

Six in Lined Box Gilt Per Set $4.25
Plain Per Set $3.60

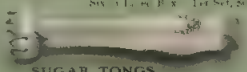
HOLLOW HANDLE FRUIT KNIFE

Six in Lined Box Per Set, $6.00



BUTTER SPREADER

Six in Lined Box, Plain Per Set, $3.00

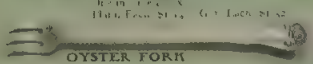


SUGAR TONGS

Plain Each $1.00 Gilt Each $1.25
Hollow Each $1.25

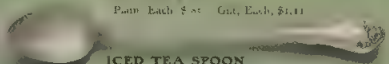
PICKLE FORK

Gilt Lined Box
Plain Each $.80 Gilt, Each, $1.11



OYSTER FORK

Six in Lined Box, Plain Per Set, $2.00



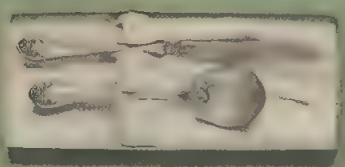
ICED TEA SPOON

Six in Fancy Box Per Set $2.40

HOLLOW HANDLE PIE SERVER

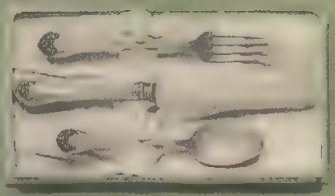
One in Box, Each $2.25

Replaced by one of like size.



BUTTER KNIFE AND SUGAR SHELL

One Set in Lined Box
Plain Per Set $1.60 Gilt Per Set $1.85



THREE PIECE CHILD SET One Set in Lined Box

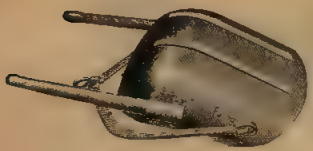
Hollow Handle Knife, Per Set, $2.25
Silver Plate Embossed Knife, " " 1.00
Fork Knife 1.50

Replaced by one of like size.

LA ROSE DESIGN

Reliance Plate Patterns which are protected by U. S. Letters Patent must not be advertised or sold below our established re-sale prices. These prices may be obtained from us.

ROAD SCRAPERS



ROUND BACK, WITH RUNNERS

Has a Perfect Cutting Edge and Fills Easily. The Back is Shaped to Prevent Dirt Going Over Top. The Runners Lighten the Draft and Prevent Wear from Coming on the Bottom of Scraper. High Carbon Steel No. 10 Gauge, Pressed from a Single Plate into a Solid Bowl without Slit, Seam or Lap. The Bowl is Well Rounded at the Sides where the Bottom is Curved up to Form the Sides, Causing Them to Fill Easily and Carry Well. The Bail, Hooks and Swivel are Heavy Wrought Steel, 2¼-inch Heavy Hardwood Handles; All Painted in Black. These Scrapers Are Full Size and Will Scour Well in Any Soil

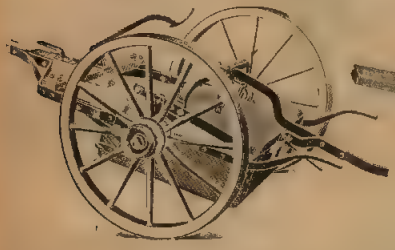
Nos.	1R	2R	3R
Capacity, Cubic Feet	7	5	3
Width Bowl Inches	24	29	25
Depth Bowl, Inches	11	10	9
Weight, Lbs.	95	83	74
Each	$10 50	10 00	9 50

SLUSSER PATTERN STRAIGHT BACK, WITH RUNNERS

Straight Back. One Piece Bottom and Sides; Riveted Back; 10 Gauge High Carbon Steel. The Bottom is Sufficiently Rounded at Back to Prevent the Dirt Sticking. Extra Heavy Bail, Swivel, Hooks and Handle Sockets. 2¼ in Hardwood Handles, All Parts Painted Black; Full Size and Will Scour in Any Soil; The Runners Lighten the Draft and Prevent the Wear Coming on the Bottom of the Bowl

Nos	1SR	2SR	3SR
Capacity, Cubic Feet	7	5	3½
Width Bowl Inches	31	29	27
Depth Bowl Inches	11	10	9
Weight, Lbs	103	93	76
Each	$11.00	79.50	10 00

✣WHEEL SCRAPERS



✣ AMERICAN

Bowl One Piece Heavy Sheet Steel, Boat Cold, Riveted Corners **Axle**—High Arched with Patent Sand Collar **Tongues**—With Trussed Wood Cross Bars (Except No 1W,) Bail, Tongue Irons and Levers of Heavy Wrought Steel Iron Parts Painted Black Wood Parts Painted Red

Nos.	1W	2W	2½W	3W
Capacity, Cubic Feet	9	12	14	16
Height of Wheels Inches	35	40	44	46
Width of Tires, Inches	2¾	3	3	-
Diameter of Axle, Inches	1¾	1¾	1¾	1⅞
Weight Each, Lbs.	400	600	650	750
Each	$76 00	90 00	100 00	110 00

✣TONGUE SCRAPERS

✣ CHICAGO PATTERN

For Making and Leveling Roads, Cutting and Cleaning Ditches and Moving Large Quantities of Dirt. Extra Heavy, Well Seasoned Box, Thoroughly Bolted, Heavy Steel Draw Bars, Extra Quality Steel Blade Ground and Sharpened. Riveted to Straps and Steel Scraper Bottom; Heavy Round Handles

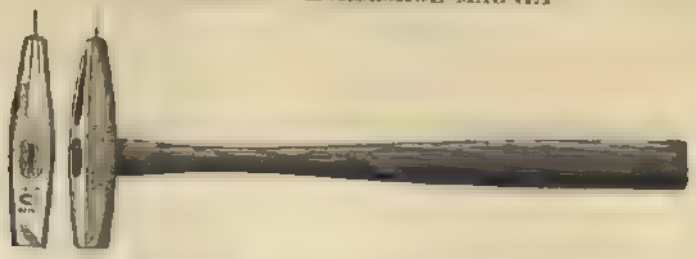
Each

No. CT—Width of Cut 48 inches, Length of Bowl 22 inches; Depth at Back 3¼ inches, Weight 120 lbs. $13 50

Items Marked ✣ Not Carried in Stock, Can Only be Furnished by Shipping Direct from Factory, Sidney, Ohio.

TACK HAMMERS

ROBERTSON'S HORSESHOE MAGNET

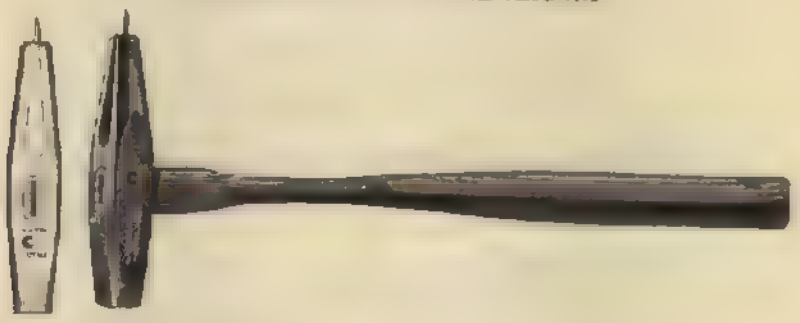


	Per Dozen
No. 412 4 oz Forged Steel Head, Bright Finish, 12 in. Hardwood Handle	$ 6 00
No. 512—5 oz Forged Steel Head, Nickel Plated, 12 in Hardwood Handle	9.00
	12.00
	18.00

Average Weight Per Dozen 6 Pounds
One Dozen in a Box.

PAPER HANGERS' HAMMERS

ROBERTSON'S HORSESHOE MAGNET

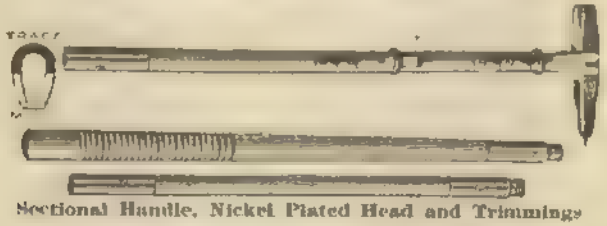


	Per Dozen
No. 812—8 oz Forged Steel Head, Nickel Plated, 12 in Hardwood Handle	$15 00
	26.80

For Tacking Canvas on Walls and Ceilings.
Weight Per Dozen 8 Pounds
One Dozen in a Box

BILL POSTERS' HAMMERS

ROBERTSON'S HORSESHOE MAGNET



Sectional Handle, Nickel Plated Head and Trimmings

	Per Dozen
No. 802—8 oz Head, 36 in Jointed Handle (Two 18 in Sections), with Springs for Holding Card to Set First Tack	$24.00
	42.00

Weight Per Dozen 16 Pounds
One-sixth Dozen in a Box

Plain Handle, Nickel Plated Head and Trimmings

	Per Dozen
No. 818 8 oz Head, 18 in. Handle, with Springs for Holding Card to Set First Tack	$19 80
	35.00

Weight Per Dozen 10 Pounds
One-sixth Dozen in a Box.

The above Bill Posters' Hammers are far superior to any other tool made for this purpose. The hammer head and handle trimmings being nickel plated prevents rusting and gives them a handsome appearance

TACK HAMMERS

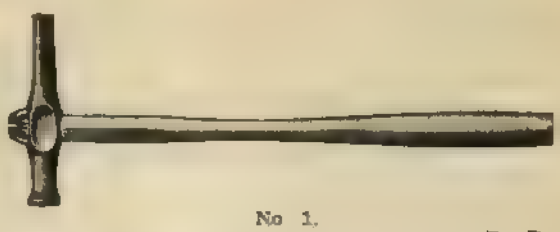
MAGNETIC

Per Dozen

No. 12—3⅜ in., Magnetic Iron Head, X Plate, 10 in Iron Handle, with Claw $1 00

Weight Per Dozen 6 Pounds

One Dozen in a Box



No 1.

Per Dozen

No. 1—3¾ in Magnetic Iron Head, X Plate 10 in Hardwood Handle, with Claw $1.50

No. 2—4 in. Magnetic Iron Head, X Plate, 11½ in Hardwood Handle with Claw . . . 1.90

Note—No 1 has Claw on Head as shown above
No 2 has Claw on End of Handle.

Weight Per Dozen 4 Pounds.

One Dozen in a Box.

SAYRE'S MAGNETIC

Per Dozen

No. 272—5 oz. Magnetic Cast Steel Head, Polished, 12 in. Hickory Handle $5 00

No. 275—8 oz. Magnetic Cast Steel Head, Polished, 12 in. Hickory Handle 7 00

Average Weight Per Dozen 7 Pounds

One-half Dozen in a Box.

Per Dozen

No. 271—5 oz Magnetic Cast Steel Head, Polished, 12 in. Hickory Handle $5 00

Weight Per Dozen 6 Pounds

One-half Dozen in a Box

TACK HAMMERS

V. & B. MAGNETIC

Per Dozen

No. 5—4¾ in. Magnetic Drop Forged Steel Head, Adze Eye, Hardened Faces, Tempered Claws, Highly Polished, White Hickory Handle $10.00

Weight Per Dozen 7 Pounds.

One-half Dozen in a Box.

UPHOLSTERERS' HAMMERS

GERMANTOWN

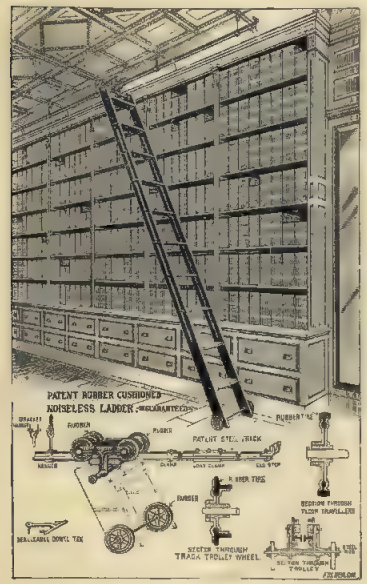
Per Dozen

No. 71 -Octagon Poll Round Neck, Adze Eye, Forged One Piece Solid Tool Steel, Extra Fine Finish, Second Growth Hickory Handles, Wt. Each without Handle 7½ oz. . . $8.00

Weight Per Dozen 10 Pounds.

One-half Dozen in a Box.

Improved Travelling Store or Library Ladder.



No. 3008.

These Ladders are essential to all up-to-date stores and are most suitable for libraries, etc. They take up much less room than the old-fashioned step-ladders, besides minimising the risk of accidents to the users.

These ladders are quite noiseless. We have them fitted up in our own premises, and should be pleased at any time to show them in use.

DESCRIPTION.

The Track is double angle steel rail, which is very strong yet neat, and is suspended from ceiling.

The Ladder is constructed of best clear Pine, has open sides 5 in. wide, with 5 in. steps.

The Trolley is self-adjusting, made of Malleable Iron, steel bearings, noiseless wheels, fitted with special rubber tyres.

The Tyres used on these ladders are made of a specially prepared rubber. They are held securely in position by wheel castings.

The Floor Travellers are 5 inches in diameter with the tyres.

Length of track or tracks, number of ladders and height of ceiling are all particulars you need give us with order. Track and Hangers are adjustable and interchangeable.

The Ladder suspended from the ceiling and running sidewise to the shelving, enables the user to mount the ladder the same as he would a stairway, leaving both hands free. This is a decided advantage over a ladder facing the shelving, for the reasons that in such ladders the user is obliged to hold on to the ladder with one hand in ascending and descending. Any one after using the two different style ladders will without question decide in favour of the above, owing to these reasons.

Price: Ladder and Trolley complete £6:10:0
Track complete with hangers, per foot 0: 2:0

We are prepared for our experienced workmen to fit these up at a moderate price within the London area.

Contractors to the Home, Indian, and Colonial Governments.

SPECIMEN PAGE OF OUR BUILDERS' AND BRASS FOUNDRY CATALOGUE No. 17.

Copy sent to any address in Great Britain on receipt of 1/-

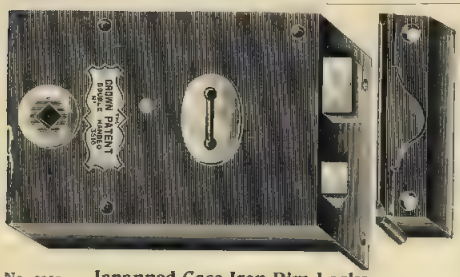
The Briton Patent Door Spring and Check.

One of the leading features of this Check is its manufacture. It is British throughout and is considered the best on the market. All inside parts are interchangeable and made of malleable iron and steel Drop Forgings.

The Briton will suit right or left-handed doors on either side without making any change whatever in any part.

Size.		PRICES. Gold Bronze.	Statuary Bronzed or Antique Coppered.	Nickel-plated
O	For Screen Doors ...	14/-	16/-	17/-
A	„ Light Doors ...	17/-	20/-	21/-
B	„ Ordinary Doors ...	20/-	23/6	24/6
C	„ Ordinary Outer Doors	25/-	29/-	30/-
D	„ Heavy Doors ...	32/-	37/-	38/6
E	„ Extra Heavy Doors...	40/-	46/-	48/-

No. 3009.



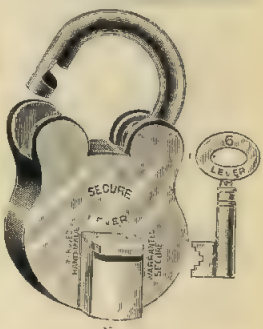
No. 3010. **Japanned Case Iron Rim Locks.**
(Double Handed.)

With Brass Bolts. (Furniture extra.)

Size ...	6	7	8 in.
Price ...	25/-	31/6	46/9 per doz.

Steel Action Shifting Bolts. (Furniture extra.)

Size ...	6	7	8 in.
Price ...	25/6	32/-	48/- per doz.



No 3011. **Hobbs' Pattern Brass Padlock.**
4 Levers.

Size	1½	1¾	1⅞	2	2¼	2½	3 in.
Price	3/6	3/9	4/-	4/3	4/9	5/-	6/- ea

No. 3012. **Patent Covers for Rubber Cups.**

Price ... ... 50/- per gross.

No. 3013. **Aluminium Latex Cups.**

3⅞ × 2½ × 2½ in.

Price ... ... 135/- per 1000.

No. 3014. **Rubber Knives.**

Of Best Quality.
Hardwood Handle.

Price ... .. 7/6 per doz.

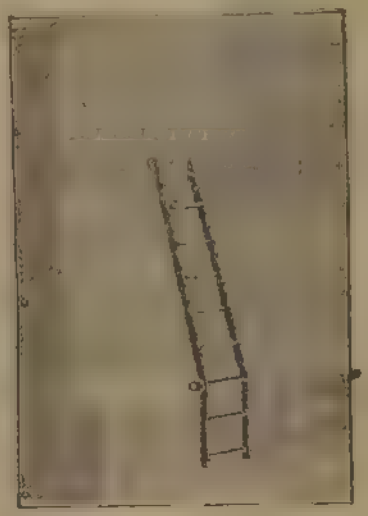
Our Supplementary Sheets of Rubber Tools free on application.

Bronze Medal, 1884.—Gold Medal, 1890.

‡ROLLING SHELF LADDERS.

‡Made of Kiln Dried Oak; Varnished; Width 17 in.; Width of Steps 3½ in.; Height between Steps 12 in.; with Nickel Plated Malleable Iron Castings; 5 in. Noiseless Rubber Tired Wheels.

Prices do not Include Track.



‡No. 1—BENT LADDERS ..... Each $23.00

‡No. 6—STRAIGHT LADDERS ..... Each $21.00

‡No. 15M—TROLLEY LADDERS. ..... Each $21.00

‡SHELF LADDER TRACKS.

Per Foot

‡No. 8—Steel Tubing, 1 in. in Diameter, Complete with Brackets and Screws. Brackets should not be more than 4 ft. apart $0.44

‡No. 10—Extra Strong, 1 in. Diameter Steel Tubing, Complete with Brackets and Screws, for use where Brackets are more than 4 ft. apart ..... .54

‡No. 13—Trolley, 1 in. Diameter Steel Tubing, Complete with Bracket and Screws, for use on Trolley Ladders ..... .44

‡No. 7—Wood Track 1 in. Wide, Complete with Screws, for use on 1¾ in. or larger Shelf ..... .34

INSTRUCTIONS.

No. 8.

In ordering Ladders Nos. 1 or 6, Give following Exact Measurements:

Height from Floor to Top of Base or Counter Shelf.

Width of Base Shelf to Front Edge of Uprights or Partition.

Height from Base Shelf to Top of Shelf Opposite which the Track is to be fastened.

If No. 8 or No. 10 Steel Track is wanted, Give the following Measurements:

Entire Length of Line of Shelving, and as All Joints of Steel Track Must Meet at Center of Uprights, Begin at Outside of One End of Shelving and Measure to Center of Upright that is Nearest to, but inside of 12 ft. Repeat the Operation Measuring from Center to Center of Uprights in each instance and Order the Pieces of Track to Correspond with the respective Measurements. Specify the Number of Brackets Required, Counting One for Each Upright in the Shelving.

If No. 7 Wood Track is wanted, it is only necessary to state the Number of Feet. For Wood Track it is necessary to have a 1¾ in. Thick Shelf to Fasten it to, and this Shelf must Project One Inch Farther than the Front Edge of Uprights in Shelving. The Track is Screwed to the Edge of this Shelf.

If No. 15M Ladder and No. 13 Trolley Track is wanted, it is only necessary to state Height of Ceiling from Floor and the Number of Feet of Track required. If Trolley Track is Fastened to a Plastered Ceiling, Strips of Wood 6 in. Long are Required to Fasten the Brackets to these Strips to be fastened to the Joist.

Special Ladders. Estimates will be Furnished on Application for Ladders of Special Style, Design and Finish.

For further information, write for a Milbrae Rolling Ladder Catalog and Order Blanks.

Instructions How to Set up Fixtures furnished with each Ladder.

Crated in any Quantity.

Average Weight per Ladder about 55 lbs.

CHURNS.

SIMMONS RUN EASY.

Bottom and Sides made of Selected Ash, Natural Finish; Seasoned and Varnished; Sides Mortised and Screwed; Dasher made of Rock Maple; Inside Irons Galvanized, Outside Irons Bronzed, Tops Securely Screwed on; Best Steel Tinned Malleable Iron Bail; Diameter of Cog Wheel 10 in.

Nos.	1R	2R	3R
Capacity, gals	5	11	14
Churns gallons Cream	5	7½	10
Height, inches	30	30	30
Floor Space, in.	16½x19	20½x19	24x19
Weight each about, lbs	37	42	49
Each	$8.50	9.50	10.00

One in a Crate, Set Up.

No. 31R—Large Gear Wheels for Run Easy Churns

Nos. 1R, 2R and 3R, Diameter 10½ in.; Weight each about 3 lbs. ..... Each $1.50

Packed Loose.

BENT WOOD.

Bottom Made of One Piece Selected Ash, Bent into Shape; Sides and Cover made of Selected Poplar Wood, Thoroughly Seasoned and Fitted into Grooves in the End in such a manner as to make Leakage Impossible. Natural Finish, Varnished; Dasher made of Rock Maple; Inside Irons Galvanized; Outside Irons Green Japanned; One Piece Legs, Screwed on; Diameter of Cog Wheel 10 in.

Nos.	2B	1B	0B	00B
Capacity, gallons	8	11	13	14
Churns gallons cream	4	6	9	12
Height, inches	33	33	33	35
Floor Space, inches	16x18	17x20	18x21	19x24
Weight each about, lbs	40	48	50	54
Each	$11.50	12.50	13.50	14.50

One in a Crate, Set Up.

No. 31B—Large Gear Wheels for Bent Wood Churns

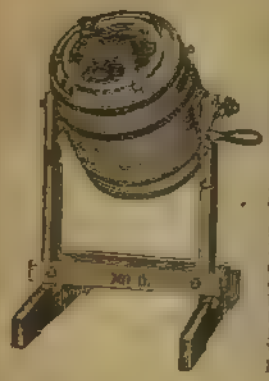
Nos. 2B, 1B, 0B and 00B; Diameter 10½ in.; Weight each about 3½ lbs. ..... Each, $2.70

Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BARREL CHURNS.

BELLE.



Oak, Seasoned and Varnished; Red Painted Cover, Cork Packed, with Glass Covered Sight Hole; Galvanized Iron Top Castings; Black Japanned Malleable Iron Cam Fastener; Malleable Iron Swinging Trunnions and Crank, Black Japanned; Plain Wood Handle; 6 Steel Hoops, 1 in Wide, Black Japanned; No. 0 has 4 Hoops, Nos. 1 to 5 have 6 Hoops; Bolted Oak Wood Frame; Nos. 4 and 5 Fitted with Two Cranks (One on Each Side), so they can be Operated by Two Persons.

Nos.	0	1
Capacity, gallons	5	10
Churn gals. cream	1 to 3	3 to 5
Height Churn, in.	15	17
Height Frame, in.	22	22
Diameter Churn, in.	12½	14½
Wgt. each abt., lbs.	28	34
Each	$3.00	$ 00

Nos.	2	3	4	5
Capacity, gallons	10	12	5	7
Churns gallons cream	4 to 7	5 to 9	2½ to 12	3 to [illegible]
Height Churn, inches	18½	21½	23	[illegible]
Height Frame, inches	24	24½	27½	28
Diameter Churn, inches	15½	19	[illegible]	21½
Weight each abt. lbs.	[illegible]	48	[illegible]	65
Each	$10.50	$11.00	14 [illegible]	15.00
	6.30	7.00	8.00	10.10

Shipped Knocked Down

NOTE—Any of above Churns can be used with Power by ordering Pulleys listed below.

‡Belle Churns Large Sizes without Frames; ADAPTED FOR POWER.
‡Pulleys and Pulley Shafts Not Included Unless Specified.

Nos.	‡6	‡7	‡8	‡9
Capacity, gallons	60	80	100	150
Churns gallons Cream	5 to 25	6 to 30	7 to 35	10 to 40
Weight each about, lbs.	100	116	120	150
Each	$22.00	26.00	$5 00	40.00
	15.10	17.90	24.00	27.40

‡For Frames on Nos. 6 and Upwards, $4.00 ($4.80) Extra. Larger Sizes made to Order.

‡Churn Pulleys to Run with Power.

Single, inch	‡12	‡14	‡16
Each	$3 00	$ 00	5 00
	3 60	4 80	6.00
Double, inch	‡	‡14	‡16
Each	$5 00	$ 00	10 00
	7.20	9.60	12.00

‡Coupling for Churn Dog Power, Each,	$4 00	$4 80
‡12 inch Churn Pulley Shaft, Each,	1 50	1.80
‡14 inch Churn Pulley Shaft, Each,	2 00	2.40
‡16 inch Churn Pulley Shaft, Each,	2 50	3.00

Churn Covers Complete.

Sizes		
No. 0, Each,	$1 00	$1.40
No. 1, Each,	1 [illegible]	1 85
No. 2, Each,	1 95	2 80
No. 3, Each,	1 45	2.10
No. 4, Each,	1 75	2.50
No. 5, Each,	2 00	2.80

Churn Cranks.

Sizes		
No. 0, Each,	$0 30	$0.42
Nos. 1, 2 and 3, Each,	40	.56
Nos. 4 and 5, Each,	50	.70

Crank Trunnions.

Sizes		
Nos. 0, 1, 2 and 3, Each,	$0.25	$0.30
Nos. 4 and 5, Each,	30	.42
Cork Packing for Nos. 0 to 5 Churn, Each	50	.34
Cam Fasteners for Nos. 0 to 5 Churn, Each	50	.70

Short Trunnions.

Sizes		
Nos. 0, 1, 2 and 3, Each,	$0.20	$0.28

‡Churn Carry Frame.

Sizes		
‡No. 0, Each,	$0 40	$0.56
‡No. 1, Each,	45	64
‡No. 2, Each,	50	.70
‡No. 3, Each,	55	.80
‡No. 4, Each,	60	.84
‡No. 5, Each,	.66	.91
‡Churn Cover Bolt, Each,	.12	.18
‡Churn Cover Fastener, Each,	50	.70

‡Churn Rim.

Sizes		
‡No. 0, Each,	$0 80	$1.20
‡No. 1, Each,	90	1.30
‡Nos. 2 and 3, Each,	1 00	1.40
‡Nos. 4 and 5, Each,	1 20	1.70

‡Churn Bail.

Sizes		
‡Nos. 0 and 1, Each,	$0 19	$0.28
‡Nos. 2 and 3, Each,	.25	.36
‡Nos. 4 and 5, Each,	.30	.42

Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

BARREL CHURNS.

BELLE

FOR POWER USE. ON GASOLINE ENGINE OR MOTOR.

Oak, Seasoned and Varnished; Red Painted Cover, Cork Packed, with Glass Covered Sight Hole; Galvanized Iron Top Castings; Black Japanned Malleable Iron Cam Fastener, Malleable Iron Swinging Trunnions, Black Japanned, Fitted with Double Pulley and Shaft, 12 in. Diameter; 6 Steel Hoops, 1 in. Wide, Black Japanned; Bolted Oak Wood Frame. Will Churn from 1 to 7 Gallons of Cream.

Each

No. 2F—Capacity 15 Gallons; Height of Churn 18½ in. Height of Frame 28¼ in., Diameter of Churn 15½ in.; Weight each about 65 lbs. $14 00

Shipped Knocked Down

‡FAVORITE.

Oak, Seasoned and Varnished; Red Painted Cover, with Cork Packed Rim; Glass Covered Sight Hole; Galvanized Iron Top Castings; Black Japanned Malleable Iron Cam Fastener; Malleable Iron Swinging Trunnions and Crank, Black Japanned; Plain Wood Handle; 6 Steel Hoops 1 in. Wide, Black Japanned; Bolted Oak Wood Frame.

Nos.	0F	1F	2F	3F	4F	5F
Capacity, gallons	5	10	15	20	25	35
Churns gallons cream	2	5	7	10	12	17
Height Churn, inches	15½	17	18	20	22	25½
Height Frame, inches	24	24	24	24	28	28
Diameter Churn, inches	14½	16	18½	20½	24½	28
Weight each about, lbs	31	37	43	60	74	80
Each	$4.00	9.80	10.00	11.00	14.00	16.00
	5.10	5.70	6.40	7.00	8.10	10.20

Shipped Knocked Down

CYLINDER CHURNS.

WHITE CEDAR CYLINDER.

Made of Selected White Cedar with Two ⅞ in. Heavy Galvanized Steel Hoops, Bottom Made Two Wood Pieces Screwed on; Fitted with Tinned Malleable Iron Crank and Patent Thumb Screw Clamp Lock, which Prevents Leaking, and is Simple in Adjustment; Removable Hardwood Double Dasher; Drain Hole ⅝ in. Diameter, with Hardwood Plug; Removable Wood Cover.

Nos.	1 C	2 C	3 C
Capacity, gallons	1½ to 2	2 to 2½	4 to 5
Churns gallons Cream	1½	2½	3½
Height Churn, inches	15½	16½	18½
Height Frame, inches	24	24	24
Diameter Churn, inches	13¾	15	16½
Size of Packages, inches	5¾x6¼	7¼x7⅝	8¼x9¾
Weight each about, lbs	14	18	[illegible]
Each	$2 50	3 40	3 50
	3.80	4.80	5.10

One in a Crate

BICYCLE SPRING FORKS

*RUGBY

A FEW POINTS TO BE CONSIDERED

1st—It is a Spring Fork that attracts, rather than detracts from the appearance of the Bicycle.

2nd—It is a Spring Fork that will give entire satisfaction at a price that will enable our customers to fit them in Bicycles and sell the Bicycle at a price within reach of the average Rider. It is simple in construction and **adjustable to the weight of any Rider.**

3rd—It is a Spring Fork in which the Front Wheel remains in the same position at all times. On other Spring Forks where the Spring is in the Fork Side the Wheel does not remain in the same position in the Fork.

Loose

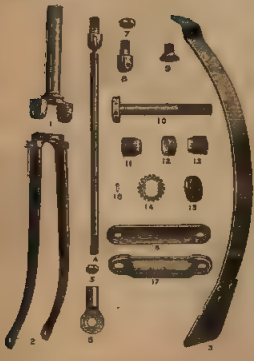
Each

No. RF—Best Quality Tempered Steel Combination Spring and Guard with large Black Patent Leather Flap. Item is extra long and threaded down a sufficient distance so that it can be fitted to any height Frame and surplus end cut off with a Hack Saw. Spring is graduated to suit the weight of any Rider. Extra Strong Knuckle Joint in Head; Large Guard Braces; all Metal parts Nickel Plated and Polished; Weight 6 lbs..... **$10.50**

✣EXTRA PARTS BICYCLE SPRING FORKS

*RUGBY

Note—When ordering Parts, always give their name and number.



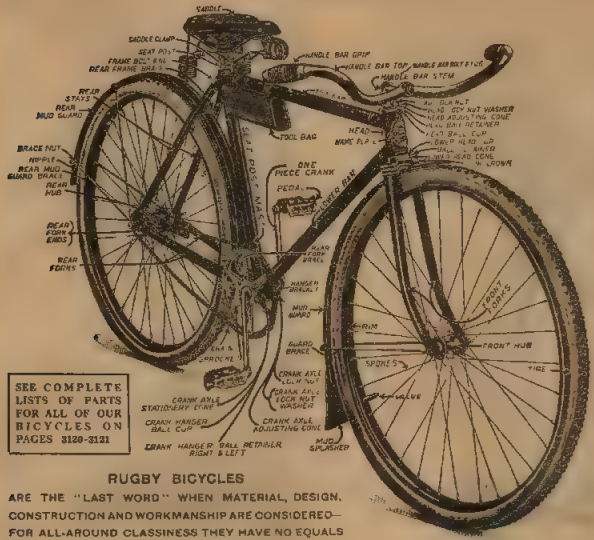
Loose

	Each
✣No. 1—Top Fork Crown and Stem	$7.70
✣No. 2—Lower Fork Crown and Sides	3 85
✣No. 3—Spring and Mud Guard	5 50
✣No. 4—Spring Brace	.50
✣No. 5—Spring Brace Nut	
✣No. 6—Spring Brace End	
✣No. 7—Spring Brace Hinge Nut	.20
✣No. 8—Spring Brace Hinge	.50
✣No. 9—Fork Crown Spring Screw	
✣No. 10—Draw Bolt	50
✣No. 11—Stationary Cone	50
✣No. 12—Cone Top	20
✣No. 13—Adjusting Cone	50
✣No. 14—Adjusting Cone Lock Washer	20
✣No. 15—Draw Bolt Nut	50
✣No. 16—Lower Cross Bar	.40
✣No. 17—Upper Cross Bar	50
✣No. 18—Cone Lock Washer Pin	

Items Marked ✣ Not Carried In Stock; Can Only be Furnished by Shipping Direct from Factory, Dayton, Ohio.

DIAGRAM OF BICYCLE WITH ALL COMPONENT PARTS INDICATED BY THE PROPER NAMES

"Originated By Us"



SEE COMPLETE LISTS OF PARTS FOR ALL OF OUR BICYCLES ON PAGES 3120-3121

THIS DIAGRAM IS INTENDED AS A GUIDE WHEN ORDERING REPAIRS TO ANYONE NOT FAMILIAR WITH THE NAMES AND LOCATIONS OF THE DIFFERENT PARTS OF A BICYCLE. THE OBJECT IS ALSO TO AVOID LENGTHY DESCRIPTIONS OF PARTS WHEN ORDERING. THIS WILL BE A READY HELP TO THE DEALER, AND WILL SAVE MUCH TIME AND TROUBLE.

FOR COMPLETE LISTS OF PARTS FOR ALL MODELS OF OUR BICYCLES, GIVING NAMES AND NUMBERS, SEE PAGES 3120-3121.

RUGBY BICYCLES

ARE THE "LAST WORD" WHEN MATERIAL, DESIGN, CONSTRUCTION AND WORKMANSHIP ARE CONSIDERED—FOR ALL-AROUND CLASSINESS THEY HAVE NO EQUALS

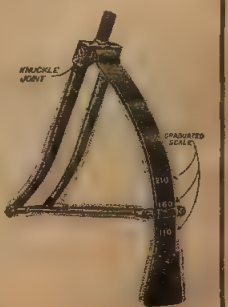
This is the best Shock Absorber for a Bicycle on the market—It REALLY DOES Absorb the Shocks

This illustration graphically shows what happens when the front wheel of a Bicycle strikes an obstruction in the road. The dotted lines show the vibration caused by the shock. It will be observed that the Spring Fork absorbs all this shock which otherwise would be borne by the rider.

*RUGBY SPRING FORKS

Can be Applied to Any Bicycle

The Rugby Spring Fork is Adjustable to suit the weight of different Riders. It has a Graduated Scale, which can be quickly adjusted to Light, Medium or Heavy. This Valuable Feature can be found in no other similar service. It is to the Bicycle what expensive Shock Absorbers are to the Automobile. The Rugby Spring Fork makes Bicycle Riding a Real Pleasure. No more sore muscles from jolting over rough roads.



BICYCLE BELLS

MOSSBERG

Mossberg Bells are noted for their Loud Clear and Harmonious Tones which are Due to the Specially Compounded Metal Used in the Gongs. Fine Nickel Plated Gong. Very Loud. Clear. Per Dozen
No. 3 Gong, Side or Handle Clear Tone, Assorted Tone, Weight per Dozen 6 lbs. $6.00
Twelfth Dozen in a Box

For Attaching to Fork

Operated by Cord from Handle Bar

SANDOW TIRE BELL

The Sandow Tire Bell is a Siren Alarm which is attached to the Front Fork of the Bicycle. By Pulling the Cord Running from the Handle Bar to the Bell the Fly Wheel is Brought to Contact with the Front Tire Causing the Double Clapper to revolve which gives a Loud and Rapid Succession Chime. Per Dozen
No. 2TB ... Length Over All 9½ inches. Weight per Dozen 11 lbs. $9 90
Twelfth Dozen in a Box

STAR TIRE CHIME

Attached to the Front Fork of the Bicycle, by Pulling the Chain Running from the Handle Bar to the Bell the Fly Wheel is Brought in Contact with the Front Tire causing the Double Clapper to revolve which is shown to Loud Chime not Harsh or Piercing. Per Dozen
No. 55 Nickel Plated. Diameter of Gong 3 inches. Length Over All 9½ Inches; Wt. per Doz. 13 lbs. $13.10

SIREN HORNS

Siren Horns will clear the Road far more ahead and clear it more quickly than any other Alarm made. It Costs Nothing to the Safety of both the Rider and the Pedestrian. A Heavy Cord, attached one end to the ... Handle Bar, and the other to the Thumb. The Device is ... with the Front Tire and the Alarm gives forth a Weird melodious yet Piercing Note Instantly. The Interior Drum revolves on Double Ball Bearings running on Cones and Cups case Hardened, Ground and Polished. These are Adjustable for wear.

The Outer Drums are Polished Brass, Nickel Plated. The Spindles running on the Tire are Interchangeable and replaceable. The parts are all carefully Assembled and Inspected. The Finish is the best Grade of Plating throughout.

Cases same of Stamped Sheet Metal, Black Japanned. Steel Brackets; Ball Bearings, Provided with Cord or Chain so that when operated the Roller is brought in contact with Tire of Wheel, producing a Loud, Penetrating Warning.

SCREECH OWL

No. 20—Size of Case 3x3 inches. Nickel Plated. Hard Red Fiber Roller; Complete with Clamps; 22 inch Chain. Weight 1 lb. Each $2 65
One in a Box

LA DIRECTE FOR MOTORCYCLES

No. LD—Size of Case 4x4½ inches; Nickel Plated, Black Rubber Roller; Weight 15 oz. Each $3 65
One in a Box

BICYCLE BELL DISPLAY STANDS

* RUGBY

More Bells will be Sold with the aid of this Stand. This Stand is the Best and most Durable Device for the proper Display of Bicycle Bells.

NOTE—This Display Stand is not Sold, but is given Free of any Charge with an Order for Four (4) Dozen Assorted Bicycle Bells shown in our Catalog. Bells may be Assorted to suit Purchaser

"ORIGINATED BY US"

Made of Turned Hardwood. Spindles are ⅞ Inches in Diameter. Base Pieces 1 Inch Diameter. Walnut Stained; Height 18⅝ Inches, Width 16 Inches; Base Pieces 6½ Inches Long.

"DIAMOND EDGE IS A QUALITY PLEDGE"

BICYCLE BELLS

*RUGBY

Rugby Bicycle Bells are Noted for the Clear, Loud Sounding Tones, are Heavily Nickel Plated, Packed in Attractive Packages

Per Dozen

No. 41SAF -2¼ Inch, Continuous Ringing Push Button Pattern, Bell Metal Gong; American Flag Enameled in Colors on Top; Nickel Plated; Adjustable Clamp; Weight per Dozen 4 lbs **$10 60**

Per Dozen

No. 42FT—2¼ Inch; Rotary Electric Stroke, Bell Metal Gong, American Flag Enameled in Colors on Top, Nickel Plated; Adjustable Clamp, Weight per Dozen 4 lbs..... **$5 50**

One Dozen in a Box

Per Dozen

No. L3 -2½ Inch, Rotary Electric Stroke, Bell Metal Gong; Fancy Ornamental Top; Nickel Plated, Adjustable Clamp; Weight per Dozen 4¾ lbs **$5 50**

Per Dozen

No. 17—2¼ Inch; Rotary Electric Stroke Steel Gong; Nickel Plated; Adjustable Clamp, Weight per Dozen 3¾ lbs **$3 30**

One Dozen in a Box

Per Dozen

No. 15 -2¼ Inch; Double Stroke with Chime Effect, Steel Gong; Nickel Plated, Adjustable Clamp, Weight per Dozen 4.4 lbs **$4 40**

Half Dozen in a Box

Per Dozen

BRONKO—3 Inch; Double Stroke Bell Metal Gong; Nickel Plated; Adjustable Clamp; Weight per Dozen 7½ lbs..... **$13 20**

Half Dozen in a Box

Per Dozen

No. C34—2¼ Inch; Continuous Ringing Cathedral Chime; Wrought Metal Gong, which Produces a Continuous Multitoned Loud and Penetrating Ring; Nickel Plated; Adjustable Clamp Mechanism Simple, Strong and Sure; Weight per Dozen 7½ lbs **$10 50**

Per Dozen

No. 100—2½ Inch; Continuous Ringing Rotary Electric Chime; One Gong Bell Metal One Steel; This Combination of Gongs Produces a Beautiful Tone Effect; Nickel Plated Adjustable Clamp, Weight per Dozen 6¾ lbs. **$8 35**

One in a Box; Half Dozen in a Carton

MOSSBERG

For Attaching to Handle Bar

Per Dozen

No. 10—Cuckoo; Double Stroke Toned to Resemble a Cuckoo; Weight per Dozen 4¾ lbs **$8 00**

Twelfth Dozen in a Box

LAWN MOWERS.

RUN EASY*.

OUTSIDE ADJUSTMENT, positive and easy to reach.
HEAVY DISHED SIDE PLATES, Strong and rigid.
STEEL AXLE and FRONT ROD, (⅝ in. diameter) securely bracing frame.
FAST SPEED, making clean and close cut.
MILLED AXLES AND BEARINGS, run perfectly true.
GENERAL HEAVY CONSTRUCTION, lessening danger of breakage.

Cast Iron Side Frames and Bed Plate; Steel Self-sharpening Bed Knife, with Outside Rocking Adjustment; Heavy Cast Iron, Dished, Drive Wheels, 8 in. in Diameter ⅝ in. Steel Axle; Improved ⅝ in. Steel Front Bar; Three Tempered Steel Revolving Blades with Malleable Reel Braces; Direct Gearing, Steel Handle Braces, with 3 ft. Varnished Hardwood Handle and Grip.

RUN EASY*; LOW WHEEL; PLAIN BEARING.

Painted Red, Green and Gold.

Adjustable to cut grass to a height of ⅝ to 1¼ in., Will cut grass standing about 5 in. high.

Nos.	R12	R14	R16	R18
Width of Cut, inches	12	14	16	18
Diameter of Reel, inches	5⅛	5⅛	5⅛	5⅛
Extreme Width, inches	17½	19⅛	21⅛	23⅛
Weight each about, lbs.	36	37	38	42
Each	$5.10	5.40	5.60	5.80

One in a Wood Box.

BAY STATE*; LOW WHEEL; PLAIN BEARING.

Cast Iron Side Frames and Bed Plate, Painted Green; Steel Self-Sharpening Bed Knife, with Outside Rocking Adjustment; Plain Cast Drive Wheels 8 in. in Diameter; ⅝ in. Steel Axle; ⅝ in. Steel Front Cross Bar; Three Steel Revolving Blades, with Malleable Reel Braces; Direct Gearing; Steel Handle Braces with 3 ft. Varnished Hardwood Handle.

Adjustable to cut grass to a height of ⅝ to 1½ in., will cut grass standing about 5 in. high.

Nos.	B12	B14
Width of Cut inches	12	14
Diameter of Reel, inches	5⅛	5⅛
Extreme Width, inches	17	19
Weight each about, lbs	35	37
Each	$4.00	4.20

BAY STATE* MOWERS ARE NOT WARRANTED.

One in a Wood Box.

PENNSYLVANIA, PLAIN BEARING.

Cast Iron Side Frames, Bed Plate and Gear Casings; Adjustable Steel Bed Knife; Spoke Pattern Drive Wheels; ⅝ in. Axle; 1 in. Tubular Iron Front Cross Bar; Four Steel Revolving Blades, with Malleable Reel Braces.

Triple Gearing on one side; Steel Handle Braces, with 31/3 ft. Varnished Hardwood Handle and Handle Bar; Mowers Painted Green and Red, with Gold Bronze Striping.

PENNSYLVANIA, HIGH WHEEL.

With 10½ in. Drive Wheel.

Adjustable to cut grass to a Height of ⅝ to 1½ in. Will cut grass standing about 4½ in. High.

Nos.	PH15	PH17	PH19	PH21
Width of Cut, inches	15	17	19	21
Diameter of Reel, inches	6½	6½	6½	6½
Extreme Width, inches	22	24	26	28
Weight each about, lbs.	78	82	85	97
Each	$25.00	28.00	31.00	34.00
	21.00	24.40	26.80	29.20

One in a Wood Box.

EXTRA PARTS FOR LAWN MOWERS NOT CARRIED IN STOCK; CAN ONLY BE FURNISHED BY BEING SHIPPED DIRECT FROM FACTORY.

PONY LAWN MOWERS.

KEEN KUTTER*. PONY.

Extra Heavy Rocking Adjustment for Lower Steel Bed Knife, Worked by Two Square Head Adjusting Screws and a Square Head Compensating Screw on Each Side. Extra Steel Braced, Securely Bolted, Varnished, Maple Handle Attachment for Gulding, 56 in. Long with Varnished Maple 20 in. Handle Bar Fastened to Handle with Patent Non-loosening Clamp Attachment. Varnished Hardwood Adjustable Roller, 4 in. in Diameter.

All Metal Parts Extra Finished and Painted Crimson, Silver and Gold. Swinging Draft Attachment Fastened in Two Malleable Iron Arms, Bolted to Front Connecting Bar; Malleable Iron Single Tree, with Swinging Bar Attached to ⅝ in. Steel Draft Bar, and Operates in a Segment which is held on Draft Bar, in a Double Collar Rest, Fastened with Set Screws. The Segment Lifts up and down to Follow any unevenness of the ground, but can only drop to a certain degree thus keeping the Single Tree from the ground.

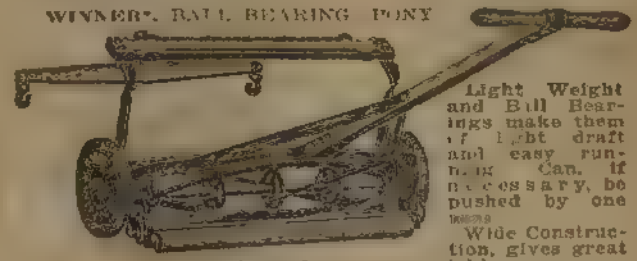
Extra Heavy Highest Grade Cast Side Frames, Spoke Flanged Drive Wheels and Dished Bed Plate, all Thoroughly Braced and Re-inforced; Four Highest Grade Crucible Steel Heavy Oil Tempered Revolving Knives, and Adjustable and Self-sharpening Bed Knife, Securely Screwed to Bed Plate. Four Perforated Malleable Reel Braces; Malleable Adjustable Roller Brackets; 1⅛ in. Steel Main Axle; Extra Heavy Steel Reel Axle, 1 in. in Diameter; Double or Direct Gearing on both Sides, with Independent or Removable Main Gear, all Gear Teeth Extra Hardened. Compensating Globular Reel Journal. Triple Interior Steel Ratchets on Both Sides, Inside of Drive Wheels, with Slide Screws to Throw the Mower in or out of Gear, Slide Screws Working from Outside Face of Drive Wheel. Drive Wheels are Interchangeable from Right to Left, to Equalize Wear.

Diameter of Drive Wheels 14 in.; Width of Tread 2 in.; Axle has 4⅝ in. Bearing on Drive Wheel Hub; Wheel Base, or Length on Ground (from Center of Roller to Center of Drive Wheel), 18 in. Mower Adjustable to Cut Grass to Height ½ to 2½ in.

No.	KP25	KP30
Width of Cut, inches	25	30
Diameter of Reel, inches	7	7
Extreme Width, inches	35	40
Length over all, ft. (Shafts not included)	6	6
Weight each about, lbs.	245	270
Each	$72.00	00.00

Extra Parts for KEEN KUTTER* Pony Lawn Mowers are Carried in Stock and can be included with Orders for Other Goods.

WINNER*, BALL BEARING PONY



Light Weight and Ball Bearings make them of light draft and easy running. Can, if necessary, be pushed by one [illegible].

Wide Construction, gives great capacity, covering a large lawn very quickly.

LOW PRICE, little higher than a good small Mower.

Extra Strong Cast Iron Side Frames and Bed Plate; Crucible Steel Lead Self-sharpening Bed Knife, with Outside Rocking Adjustment; Heavy Spoke Flange Raised Drive Wheels 10 in. in Diameter; ⅞ in. Steel Axle; Improved ⅝ in. Front Bar; Four Tempered Steel Revolving Blades, with Malleable Reel Braces, Cutter Gear Ring with Hardened Pinions and Ratchets; Double Steel Handle Braces, with 3½ ft. Varnished Hardwood Handle and Handle Bar; Sliding Single-tree Draft Attachment, for Pony or Horse.

WINNER*, Painted Dark Blue and Gold; Phosphor Bronze Reel Bushings.

Adjustable to cut grass to a Height of ⅝ to 1¾ in. Will cut grass standing about 7½ in. high.

No. P31—Width of Cut, 31 in.; Diameter of Reed, 7 in.; Extreme Width, 38 in.; Weight each about, 125 lbs.; [illegible]

One [illegible]

EXTRA PARTS FOR LAWN MOWERS NOT CARRIED IN STOCK; CAN ONLY BE FURNISHED BY BEING SHIPPED DIRECT FROM FACTORY.

PONY LAWN MOWERS.

PENNSYLVANIA, PLAIN BEARING, PONY.

Cast Iron Side Frames, Bed Plate and Gear Casings; Adjustable Steel Bed Knife; Spoke Flange Drive Wheels, 11 in. Diameter; ⅝ in. Steel Axle; 1 in. Tubular Iron Front Cross Bar; Four Steel Revolving Blades, with Malleable Reel Braces; Triple Gearing on both sides; full Braced Steel Handle, 4½ ft. Long, with Wood Grip; Front Draft Attachment for Pony or Horse; Painted Green and Red, with Gold Bronze Striping.

PONY.

Adjustable to cut grass to a height of 2 in. Will cut grass standing about 4½ in. high.

No. P25—Width of Cut 25 in.; Diameter of Reel, 6¾ in.; Extreme Width, 36 in.; Weight each about 150 lbs. .....Each, $50.00 $2.00

One in a Crate.

LAWN TRIMMERS.

KEEN KUTTER* Double Gear Ball Bearing.

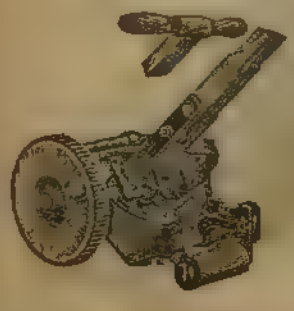
Cut showe Smooth Right Side Plate.

Highest Grade Cast Side Frames, Spoke Flange Raised Drive Wheels, Gear Casings and Bed Plate, all Thoroughly Braced and Reinforced, Highest Grade Crucible Steel Oil Tempered Revolving Knives and Adjustable Bed Knife, Securely Screwed to Reinforced Bed Plate; Malleable Reel Braces and Adjustable Roller Brackets; Cast Drive Wheel Bearing and Steel Ball Bearing Reel Axle; Gearing on one Side; Double Sliding Steel Pin Ratchet; Simple and Strong Rocking Adjustment for Lower Steel Bed Knife, worked from Lower Side; Steel Handle Braces; Extra Varnished 39 in. Clear White Maple Handle and Hardwood Roller 1¾ in. in Diameter; All Running Parts Carefully Milled; Metal Parts Extra Finished, Painted Crimson and Gold Bronzed.

Four Reel Knives, Diameter of Drive Wheel 8½ in.; Front Roller 9/16 in. Reel Axle 9/16 in.; Bearing on Drive Wheel Hub 1½ inches, Adjustable to Cut Grass to a Height of ¾ to 1½ in.; Will Cut Grass Standing about 6 in. High. Each

No. KE, Width of Cut 8 in.; Diameter of Reel 5½ in. Extreme Width 10½ in.; Weight each about 31 lbs. $10.00

One in a Crate.



ROLO* Double Gear, Ball Bearing.

Cast Side Frames and Drive Wheel, Gear Casings and Bed Plate; Tempered Crucible Steel Revolving Knives and Bed Knife, Securely Screwed to Reinforced Bed Plate; Steel Connecting Bar and Reel Axle, 9/16 in Diameter; Malleable Reel Braces and Adjustable Roller Brackets; Cast Drive Wheel Bearing and Steel Ball Bearing Reel Axle Gearing on one side; Adjustable Reinforced Cutter Bar; Double Steel Pin Ratchets; Simple and Strong Rocking Adjustment for Lower Steel Bed Knife worked from Lower Side, Adjustable Varnished Hardwood Roller 1¾ in. Diameter; Handle 39 in. Long; Steel Handle Braces; Entire Trimmer finished in Blue and Gold.

Three Reel Knives, Diameter of Drive Wheel 6¾ in.; Bearing or Drive Wheel Hub 15/16 in.; Adjustable to Cut Grass to Height ¼ to 1½ in.; Will Cut Grass Standing about 7 in. High. Each

No. RE—Width of Cut 5 in.; Diameter of Reel 5½ in.; Extreme Width 7 in.; Weight each about 21 lbs....$8.00

One in a Wood Box.

‡HORSE LAWN MOWERS.

‡TOWNSEND'S.

High Grade Cast Iron Frame, Drive Wheels and Gear Casings, Four Crucible Steel Oil Tempered Revolving Knives and Adjustable Bed Knife; Malleable Reel Braces; Triple Geared on one Side only, with 11½ in. Main Gear Wheels; Triple Cast Rollers, 15 in. in Diameter, each 8½ in Wide, with Triple Pawls in each Roller; 7½ in Front Caster Pattern Guide Wheels; Wood Slat Foot Platform, 7 in. Wide; Cast Saddle Seat, 16x17 in., elevated 30 in. on Steel Spring Brace; Convenient Lever, 36 in. Long, for instant changing of Height of Cut, also one 14 in. Long for throwing Cutting Knives out of Gear; Heavy Steel Axles and Front Cross Brace; 8½ ft. Shafts in Front; 40 in. Braced Steel Guide Handles in Rear.

‡Townsend's, Horse; Triple Ratchet, with Shafts, Seat and Handles. Adjustable to cut grass to a height of ½ to 2 in. Will cut grass standing about 6 in. high.

Nos.	T30	T38
Width of Cut, Inches	30	38
Extreme Width, Inches	38	46
Diameter of Reel, inches	7	7
Weight each about, lbs	620	700
Each	$125.00	140.00

One in a Crate.

‡PENNSYLVANIA

High Grade Cast Iron Frame, Drive Wheels and Gear Casings; Four Crucible Steel Oil Tempered Revolving Knives and Adjustable Bed Knife; Malleable Reel Braces, Triple Geared on one Side only, Double Cast Rollers, 11½ in. in Diameter, 9 in Triple Pawls in each Roller; Malleable Iron Stem, Cast Iron Flat Face, Guide Wheels, 4¾ in. in Diameter, Wood Platform or Foot-board, 9 in Wide; Cast Saddle Seat, 15x18 in., elevated 31 in. on Steel Spring Brace, Lever 12 in Long for throwing Cutting Knives out of Gear, Heavy Steel Axles and Front Cross Brace; 7½ ft. Shafts in Front, 54 in. Braced Steel Guide Handles in Rear; Malleable Cross Bar on Draft Iron, 32½ in. Long; Wrought Iron Stem on Draft Iron, 23½ in. Long.

‡Pennsylvania, Horse (Open Cylinder) with Shafts, Seat, Handles and Draft Iron; Adjustable to cut grass to a height of ½ to 2 in., will cut grass standing about 6 in. high.

Nos.	P30	P38
Width of Cut, Inches	30	38
Extreme Width, Inches	37	44
Length of Roller, inches	26	34½
Diameter of Reel, inches	11½	11½
Weight each about, lbs	400	450
Each	$130.00	150.00
	[illegible]	192.00

One in a Crate.

We carry heavier stocks and a more complete assortment than is shown by any other house

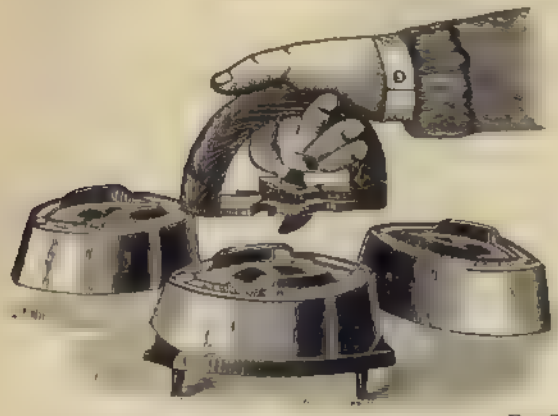
This gives YOU the advantage of OUR having the goods when you want them.

The best assortment of goods shown in America is at your disposal.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

SAD IRONS

MRS. POTTS



Per Set

No. 100—Nickel Plated, Walnut Grip Handle, Tinned Iron Stretcher and Cap. Set Comprises Three Irons, One Handle and One Stand $1.50

Weight Per Case 100 Pounds
Six Sets in a Case

STANDARD

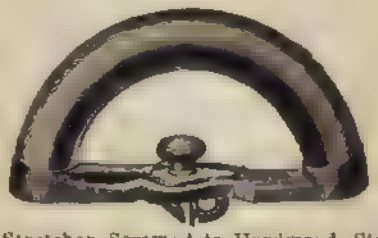
Per Pound

No. 50—Polished Face and Edge, Japanned Top and Handle, Weights 5, 6, 7, 8 and 9 Lbs. $0.07¼

Open Stock

SAD IRON HANDLES

MRS. POTTS



Per Dozen

No. 1—Hardwood Handle, Japanned Iron Stretcher Screwed to Hardwood, Steel Spring, Wood Knob $1.80

Weight Per Dozen 7 Pounds
One Dozen in a Package

GASOLINE SAD IRONS

MODERN

Best Grade Cast Iron, Heavily Nickel Plated and Highly Polished, Heavy Drawn Copper Brazed Tank, High Grade Brass Working Parts, All Parts are Interchangeable, Japanned Wood Handle

Each

No. 7F Double Pointed, Satin Nickeled Fluted Finish, Weight 6 Lbs. $6.00

Each

No. 4N Square Heel, Full Nickel Plated, Weight 6 Lbs. $6.00

Modern Self-Heating Gasoline Irons are the most useful and practical household invention of the age. They do away with hot stoves, expensive gas and electricity. They are **odorless, never stick, streak or soot. They are always evenly heated and easily regulated to any degree of heat.**

The Tanks are tested to 300 pounds water pressure, which insures their absolute safety in the hands of the average housekeeper.

They can be used anywhere in the house or out of doors a great convenience when traveling. Used in military camps, boarding schools, summer resorts and out of the way places.

Modern Make Irons are tested perfect by competent experts before leaving factory. They can be taken apart and cleaned by simply unlocking the cover. The tank can be refilled while the iron is hot, if valve is closed and no flame is near.

Original and Exclusive Features: Seamless copper tank; straight feed generator; safety solder plug in tank nut; handle never becomes hot; air cooled mixing chamber, cylinder slotted burner, all points of base heat at exact temperature; can be refilled while hot.

TAILORS' IRONS.

Natural Finish Cast Iron Handle and Base; With Extra Planed and Polished Face and Edges; ⅛ in Wrought Iron Shanks.

SIMMONS LACLEDE'S TAILORS' PRESSING IRONS.

Nos	LTP12	LTP15	LTP18
Wgt. each, lbs.	13	1[illegible]	1[illegible]
Lgt. of Base, in.	7	7⅞	8
Wth. of Base, in.	5¼	5⅝	6½
Per lb.	$0.11	.11	.11

Packed Loose

TAILORS' GEESE.

Gold Bronzed, Cast Iron Base; With Extra Planed and Polished Face and Edges; ⅜ in. Wrought Iron Twisted Handle.

SIMMONS LACLEDE'S TAILORS' GEESE.

Nos	LTG14	LTG16	LTG18
Weight each, lbs.	14	16	18
Length of Base, inches	10	10	10⅜
Width of Base, inches	2⅜	2⅝	2⅞
Per lb.	$0.11	.11	.11

Nos	LTG20	LTG22	LTG24
Weight each, lbs.	20	22	24
Length of Base, inches	10⅝	10½	10⅝
Width of Base, inches	3⅛	3⅜	3½
Per lb.	[illegible]	.11	.11

Packed Loose.

POLISHING IRONS.

Cast Iron Base, 4⅝x2⅜ in. Polished Perforated Face Polished Sides, Top of Base and Handle are Natural Finish. Wrought Iron Handle 5 in. Long, Extreme Height 4⅜ in.

No. P—TROY PATTERN;
Weight per doz. about 48 lbs
Per Dozen $7.50

Three Dozen in a Case.

SAD IRONS.

SELF-HEATING.

Smooth Finish Double Pointed, Cast Iron Core, Nickel Plated, with Removable Latched Top; Nickel Plated Stamped Steel Handle Frame, with Black Enameled Wood Handle, Securely Bolted to Frame. Complete with Removable Heat Generating Burner, Nickel Plated Copper Tank, fitted with Brass Regulating Shut-off Valve and Ebonized Wood Button.

Owing to the construction of the Burner on the Modern Iron the Heat is evenly distributed to the Base of Iron. They are Odorless, Free from Soot, will not Stick or Streak. Can be taken apart and Cleaned by simply unlocking the Top; ALL PARTS INTERCHANGEABLE.

Each Iron furnished with One Stamped Steel Wrench, One Small Steel Wire Regenerating Torch with Asbestos Packing, One Extra Gas Nut, One Cleaning Wire, AND FULL DIRECTIONS HOW TO OPERATE.

Capacity of Tank ½ Pint; Burns 2½ to 3½ Hours with One Filling; Size of Base 3¼x7 in.; Height over all 5½ in.

	Each
No. 31G—FOR ORDINARY STOVE GASOLINE	$4.00
No. 31A—FOR DENATURED ALCOHOL ONLY	4.00

One in a Cardboard Box; Six in a Case
Weight Each about 6 lbs.

CHARCOAL IRONS.

Note—A Charcoal Iron is a miniature Stove, used in the same manner as a common Flatiron and equally convenient. It is Cheap and Durable and possesses many advantages over the common Flatiron. The Iron is Heated with Charcoal, but Live Coals from a Common Wood Fire are equal to the very best Charcoal if made of Good Solid Wood—Hickory, Dogwood, Elm, Black Ash, Maple and Black Walnut. Stone Coal cannot be used in this Iron.

Self-Heating Charcoal Irons.

Polished Cast Iron Base, Gold Bronzed Removable Cast Iron Top-Piece and Chimney combined; Polished Hardwood Handle with Tin Heat-Shield.

Adjustable Draft-Hole Cover.

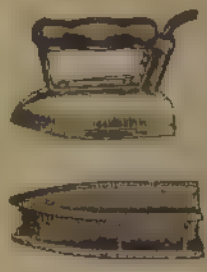
Per Dozen

No. 3—SINGLE FLUE; Bottom 6½ in. Long, 4 in. Wide; Extreme Height 7¾ in.; Handle 4¾ in. Long; Weight per dozen about 72 lbs. $19.00

No. 4—DOUBLE FLUE; Bottom 6⅝ in. Long, 4¼ in. Wide; Extreme Height 8¼ in., Handle 5 in. Long; Weight per dozen about 84 lbs. 19.00

One-half Dozen in a Case.

ELECTRIC SAD IRONS.



Solid Cast Iron Base, Nickel Plated and Polished; Solid Cast Iron Core with Nickel Plated and Polished Cast Iron Outer Casing; Stamped Steel Handle, Nickel Plated and Polished, with Black Ebonized Wood Grip, Securely Screwed to Core; Reversible Steel Stand, Aluminum Finish. Furnished Complete with 6 ft. of Black and Red Braided Electric Cord and One 8½ in. Helical Spring.

The Element of this Iron is made of a Special Alloy, held between the Base and Core by two Screws. The Casing is held in place by two Heavy Screws and Washers which also hold the Handle. The Ebonized Wood Grip on the Handle is Securely Fastened by a Bolt running through the Grip and tightened on the end by a Nut.

The Element is connected with two Brass Lugs fastened to the top of Casing and when Lugs are pushed into Socket the end of Cord distributes an even Heat over the Face of the Iron. The end of Cord is fitted with a Hard Composition which holds the Sockets, and when attached to Iron, is held in Place by a Nickel Plated Steel Knob which fits into a Slot in the Handle. The end of Cord is also wrapped with Nickel Plated Steel Spring Wire which prevents Breaking from being bent. The other end of Cord is fitted with a Screw Plug which will fit any ordinary Electric Light Socket.

An 8½ in. Helical Spring is sent with every Iron which can be attached to the Cord to keep it out of the way of the User.

Can be used on either Direct or Alternating Current.

Each Element Guaranteed for Five Years.

Nos.	105/6	2105/6
Limit of Voltage	95 to 104	105 to 115
Weight of Iron, lbs.	6	6
Size of Face, inches	6⅜x3⅜	6⅜x3⅜
Height to top of Handle, inches	5	5
Each	$6.00	6.00

FULL DIRECTIONS HOW TO OPERATE SENT WITH EACH IRON.

One in a Cardboard Box; Weight per Box 7½ lbs.

GENERAL INFORMATION REGARDING UNIVERSAL ELECTRIC SAD IRONS.

SHOWING SIMPLE METHOD OF ARRIVING AT COST OF OPERATION.

As a rule, the first question asked by the average purchaser of an Electric Iron is—"What will it cost to operate?" To answer this question and the means of arriving at the answer should be familiar to those who are selling the Irons. We therefore give below a brief explanation.

All Electric current is measured in WATTS—1000 Watts making a Kilowatt. A Watt is the Unit of Measurement in Electricity just the same as the Unit 1 is the basis of Mathematical Calculation.

Electricity is always sold and invoiced in either Kilowatts or Kilowatt hours or Ampere hours, which are all different names for practically the same thing.

The force with which the Electric Current is generated is called Voltage, which is another name for Pressure. The Volume of the Current is measured in Amperes; for instance—110 Volts, 2 2/10 Amperes, means that there is a volume of 2 2/10 carried or made under a Pressure of 110. To find the hourly consumption at this rate, it is only necessary to multiply the Volts by the Amperes, which will be the hourly consumption.

Any Electrical device should always show its capacity in Voltage and Amperes or it should bear the exact number of Watts as its capacity, which, as a rule, is stamped somewhere on the device. If the Watt is not designated, it is then only necessary to multiply the Voltage by the Amperes to find how many Watts are used per hour; viz.—110 Volts with 2 2/10 Amperes amounts to 242 Watts, which would be figured as ¼ Kilowatt, at an assumed price of 10c per Kilowatt would make the cost 2½c, which would be the cost for one hour with a CONTINUOUS CURRENT; hence, by multiplying Voltage by Amperes the hourly cost of any device can be easily determined.

The Heat Making part of an Electric Iron is known as the Element, and is made of some Clay or Metal substance (in the Pelouze Universal this part is made of composition Clay) which can be suitably applied; this Clay is called "RESISTANCE," meaning that a free flow of the Current is not allowed, or is resisted. This resistance to the flow causes friction which is what makes the heat.

The measure of satisfaction which an Electrical Iron will give is dependent upon the Accuracy and Thoroughness of the Distribution of the Heat made in the Element. If this Heat is distributed with the least possible loss, the Greatest Efficiency is retained and the cost is reduced to a minimum. In the Pelouze Universal Iron all of the above essential features are fully covered, hence, it has Endurance and will outlast any other Iron on the market, and in addition to this it is Well Balanced, which makes it easy to operate; it is also Beautifully Finished, making it Handsome and Attractive.

THE PELOUZE "UNIVERSAL"

Smoothly Finished Cast Iron Core, Nickel Plated and Highly Polished; Heavy Solid Cast Iron Lever Handle, securely Bolted to Toe of Core, leaving Heel Open, which permits Rapid Movement; Fitted with Smooth Finish Black Enameled Wood Grip 4½ in. Long, with Threaded Bolt extending through entire length; Complete with Double Wire Cord, heavily woven with green and black thread; Fitted with Porcelain Lamp Socket Attachment Plug and 3 in. Black Japanned Steel Coil Spring Cord Brace.

Can be used on either Direct or Alternating Currents.

Owing to the Perfect Construction of the Pelouze Universal Irons as shown and described in following cuts and descriptions, it has been proven by repeated tests to be positively the Most Economical Iron on the market, which is the most important feature of an Electric Sad Iron. It is the only Electric Iron on the market on which the Current and Temperature can be controlled while in action by a simple movement of the finger, which reduces the cost of operation from 20 to 50% below all other Irons.

CAN BE ATTACHED TO ANY ELECTRIC LAMP SOCKET

Control of Temperature.

Cut shows Simplicity of Control of Heat, Temperature and Current; The Switch Plug and Finger Knob is made of Composition Clay which is a Non-conductor of Electricity, thus Guarding against electric shocks. This Plug is held in sliding position by means of a Polished Steel Spring at top of Core, so that Operator can throw the current off or on with perfect ease in order to regulate temperature.

When Not in Use

Cut shows how the Iron can be set up when not in use; This eliminates the need of an extra stand, which is a Marked Advantage over other makes now on the market; It is fitted with Two Solid Iron Feet, which are Balanced so as to permit it to rest on end of Handle when set up; When Iron is thus set up the Current should always be shut off as the Outward Radiance of heat is liable to heat the sides of the Core.

ELECTRIC SAD IRONS.

The PELOUZE "UNIVERSAL"

No Odor—No Dirt—No Danger.

Can Be Heated in 3 Minutes.

(Heating Element Guaranteed for One Year.)

Polishing

Always Cool and Comfortable.

Illustration shows the advantage of the Rounded Heel, which enables the user to do Polishing Work in a most Satisfactory manner.

Sectional View.

Illustration shows a sectional view of the Iron, showing Simplicity of construction and adjustment; the Center of Core is tightly packed with best grade of Pulverized Asbestos, which positively prevents the Sides and Top of Core from becoming hot from the Heating Element and leaves the Iron Cool and Comfortable.

HEATING ELEMENT

Illustration shows the Heating Element situated directly above the polished Bottom; this Element is made of hardened Composition Clay which is the best known substance for Electric Resistance; It is fitted with a Contact (or Coil) made of Ribbon Steel Plane (not Wire) which is tightly embedded in the Clay. This Contact acts only and directly on the Bottom of the Iron; Hence, the Current is not wasted on any other part of the Core and gives it the greatest possible efficiency known, and therefore will heat the Iron in 3 minutes, thus making it the most economical Iron on the market, and owing to the Triangular Center Opening these contacts are wound so as to bring the greatest heating power where it is most needed, viz., At the Toe Edges and the Heel. This element is held in position by means of a Threaded Bolt which extends through the open Center and is Fastened with a nut at top of Core.

HEAT DISTRIBUTION

Illustration shows the relative heat distribution of the Entire Bottom; Owing to the Triangular Open Space in the center of the Element, and owing to the manner in which the contact is coiled around the Edges, it will be seen from the Blending of the dark space in the above cut how the heat is distributed more at the Toe Edges and Heel where it is most Required and does not allow the Center to become too hot and therefore Enables the user to Iron the most delicate work without danger of Scorching from an Overheated Center.

7 feet of Cord furnished with each Iron.

Nos.	95 104-4	95 104-6½
Weight of Irons, lbs.	4	6½
Limit of Voltage	95 to 104	95 to 104
Watts	250	400
Size of Face, inches	3x5⅛	4x6¼
Height over all, inches	6	7½
Each	$7.50	7.50

Nos.	105 115-4	105 115-6½
Weight of Irons, lbs.	4	6½
Limit of Voltage	105 to 115	105 to 115
Watts	250	400
Size of Face, inches	3x5⅛	4x6¼
Height over all, inches	6	7½
Each	$7.50	7.50

One in a Cardboard Box.

WILLIAMS

Solid Cast Iron Core, Polished; Nickel Plated Cast Iron Hood, Asbestos Lined; Stamped Steel Handle with Ebonized Wood Grip, 7 ft. Cotton Insulated Twisted Cord with Porcelain Pull Socket and Edison Screw Base, fitted with a Nickel Plated Coiled Steel Wire Guard; Composition Clay Element, GUARANTEED FOR 5 YEARS Nickel Plated Cast Iron Stand.

Can be used on either Direct or Alternating Current.

Each

No. 110/500/6½—Weight 6½ lbs.; Limit of Voltage 110; 500 Watts; Size of Face 7¼x3⅝ in.; Height over all 5⅝ in. $4.50

One in a Cardboard Box; Weight per Box about 8½ lbs.

FULL DIRECTIONS HOW TO OPERATE SENT WITH EACH IRON

WATER BAGS

*SAHARA SANITARY

NOTE. -The Sahara Sanitary Bag is made with Open Top for Instantaneous Filling, also for Airing Should the Bag Become Foul from Impure Water. When in Use the Opening is Held Securely Closed by Non-Rust Metal Clasps which Slide Easily on and off.

Made of the Very Best **Extra Heavy** Selected Flax Duck. The Flax for this Duck is Grown on a small Province in Russia, made into Duck in Scotland, which the Manufacturers have Found, after Exhaustive Experiments to be Far Superior to the German Grown Flax Used in other Bags. Heavy Sisal Sling Strings with Non-Rust Metal Rings, Non-Rust **Wide Open** Mouths and Large Cork Stoppers.

These Water Bags are not on the Vacuum Bottle Principle. They do not Maintain Water at an Even Temperature, but on the Contrary, in Warm Weather Reduce the Temperature. It is a Process of Refrigeration Superinduced by Evaporation.

Water at a Temperature of 80 Degrees Placed in one of these Bags and Hung up where the Air can Strike it, either in the Sun or Shade, will Materially Lessen the Temperature of the Water, the Average Lessening being about 20 Degrees.

These Bags are Used Extensively by Automobilists, Harvesters, Miners, Section Gangs, Camping Parties, or Anywhere where Spring or Ice Water is Scarce. There are also Large Quantities of Them Used in Dry Countries by Automobilists for Carrying Water for their Radiators.

Bear in Mind these Bags Must be **Hung Up** to Produce the Right Results. It is Always better to Hang them from a Limb or Stake, so that the Air can pass Entirely Around them, instead of Hanging them upon a Nail Against the Side of a Building, where the Air can only Get to One Side.

Camp or Field Style

No.	SWB1	SWB2½	SWB3	SWB5
Capacity, Gallons. . .	1	2½	3	5
Sizes, Inches .	11½x11	17x11½	20x12	23x17½
Weight per Dozen, lbs.	12	15	16	20
Per Dozen . . .	$17 00	22 00	28 70	38 60

Automobile Style

No.	ASWB2½
Capacity Gallons	2½
Size Inches	12x18
Weight per Dozen, Lbs	14
Per Dozen	$22 00

Loose

When these Bags are First Shipped Out they Will All Leak. It is Necessary to Refill them Several Times to Give all the Pores a Chance to Close. There is Always an Ooze on the Outside of the Bag and an Occasional Drip at One of the Corners. Without this the Bag Wouldn't Cool the Water, as it is this Process of Evaporation Through the Duck that Chills the Contents.

Good Quality Flax Duck, Woven Close and Strong: Double Linen Chain Stitching.

Non-Rust Metal Wide Open Mouth with Large Cork Stopper, Sisal Sling String Secured Through Brass Eyelets.

*DEATH VALLEY

These Bags are of as Fine Quality as our Sahara Sanitary, but are of Lighter Weight Material and without the Sliding Sanitary Metal Clasp Opening. They are well made and will Hold Water as well as most of the Best Bags on the Market We have brought out this Bag to Compete with the Many Bags of Inferior Quality which are being Offered to the Trade.

Per Dozen

No. WB3½—Capacity 2½ gallons; Size 15x11¾ inches; Weight per Dozen 10 lbs. $16 80

Loose

ALUMINUM PLUMBS AND LEVELS

SAND'S

No. 24—24 in. Long, Made of Best Aluminum, Accurately Machined, Highly Finished, Two Plumbs and Two Levels, Works with Either Side or End Up... Each $6 50

One in a Box

No. 42—42 in. Long, Made of Best Aluminum, Accurately Machined, Highly Finished, Four Plumbs and Two Levels, Works with Either End or Side Up..... Each $10 00

The Aluminum Levels are light, accurate and will not rust like Iron Levels, nor warp as do Wooden Levels

One in a Box

METALLIC PLUMBS AND LEVELS

STANLEY'S ADJUSTABLE CARPENTERS' AND MACHINISTS'

No. 36G, Style of 6 and 9 Inch

No. 36G, Style of 12, 18 and 24 Inch

No. 36G—Japanned Iron Frame, Nickel Plated Trimmings, Two Plumbs, Proved Glasses, with Grooved Bottom for Working on Shafting, Piping, Etc.

Length, Inches	6	9	12	18	24
Weight Per Dozen, Lbs.	10	15	22	36	51
Per Dozen	$20.40	30.40	30.00	36 00	42 00

These Plumbs and Levels have milled and wet ground top and bottom to insure two perfectly parallel surfaces. The glasses are so set that either surface may be used to level or plumb. They are set in metal cases which fit accurately on supports cast in the frame of the level. The cases are held on the supports by means of eccentric cone centers at each end, with screw adjustment.

To adjust the glasses, slacken the screws, insert paper between the case and the support that will bring the bubble to the proper position, tighten the screw and the glass is held firmly in-place.

One-twelfth Dozen in a Box

No. 37G, Style of 6 and 9 Inch

No. 37G, Style of 12, 18 and 24 Inch

No. 37G—Full Nickel Plated, Iron Frame, Polished Edges, Two Plumbs, Revolving Glass Protectors, Ground Glasses, With Grooved Bottom for Working on Shafting, Piping, Etc.

Length, Inches	6	9	12	18	24
Weight Per Dozen, Lbs.	10	15	22	36	51
Per Dozen	$33.60	38.40	48.00	54.00	66 00

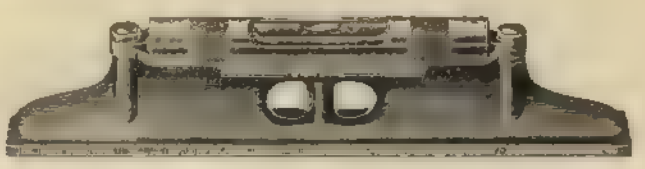
This Level is of the same general design as the No. 36G described above, but has certain improved features. The special features being that it is fitted with Ground Glasses. The Glasses are protected by Eclipse Cases and Level is nickel plated throughout.

One-twelfth Dozen in a Box

METALLIC PLUMBS AND LEVELS

STARRETT'S ADJUSTABLE BENCH

Nos. 95 and 96



Nos 95P and 96P

Japanned Base, Nickel Plated Tube, with Longitudinal Groove in Seat of Base

	Each		Each
No. 95—6 in., with Plain Glass	$1.25	No. 95P—12 in., with Plain Glass and Plumb.	$2.00
	2.00		3.20
No. 96—6 in., with Ground Glass	3.50	No. 96P—12 in., with Ground Glass and Plumb.	5.50
	5 60		8 80
Weight Per Dozen 12 Pounds		Weight Per Dozen 17 Pounds	

These Levels are so constructed that they can be accurately adjusted, and when so adjusted are not liable to get out of true the vials being set in tubes having solid ends which are firmly clamped to the base The outer tube may be turned so as to protect the glass when not in use

The base of these Levels has an improved concaved groove running through the length of base, leaving a flat margin each side, which improves the seat of base for flat work while forming an absolutely true and reliable seat for shafting, etc, and is better than a V groove.

MACHINISTS' IRON LEVELS

ECLIPSE ADJUSTABLE

No. 34V—Full Nickel Plated, Iron Base, Ground Glass, Revolving Glass Protector, with V Shaped Bottom for Leveling Shafting, Etc

Length, Inches	6	8	10
Weight Per Dozen, Lbs.	9	13	21
Each	$1.80	2.50	2 70

One-twelfth Dozen in a Box

STANLEY'S NON-ADJUSTABLE

Nickel Plated Iron Case, Proved Glass

No	39½
Length, Inches	6
Weight Per Dozen, Lbs	7
Each	$0.80

One-half Dozen in a Box

ENGINEERS' AND PLUMBERS' LEVELS

STARRETT'S ADJUSTABLE

	Each
No. 133A 10 in Long, Plain Glass, with Longitudinal Groove in Seat of Base	$2 75
	4.40

The above represents an adjustable, incline level, a fixed level, and a plumb. The hinged tube inside the working faces of the frame carrying a level glass is adjustable to the graduated scale and shows any incline by 32ds (or less) to 2 in. to the foot without interfering in the least with the plumb or level.

A longitudinal groove in seat of frame (not shown in cut) adapts it to rest on a cylindrical shaft or pipe as well as on flat surfaces, making it convenient to determine the pitch of drain pipes, etc

One-twelfth Dozen in a Box

POCKET LEVELS.

STANLEY'S STRAIGHT EDGE

	Per Dozen
No. 41—3⅜ in. Long, Japanned Iron Body, Brass Top Plate, Non-Adjustable Proved Glass.	$2.00
Can be attached to any Straight Edge or Carpenter's Square	

Weight Per Dozen 1½ Pounds
One Dozen in a Box

STANLEY'S HEXAGON

No. 31—Nickel Plated Steel Case, Proved Glass

Length, Inches	2½	3
Weight Per Dozen, Lbs.	½	1
Per Dozen	$6.00	7 20

One-half Dozen in a Box

SCALE BEAMS

Forged Steel, Japanned, White Figures and Gold Stripes, Wrought Iron Hooks, Complete with Two Cast Iron Poises

Pounds	150	200	250	300	350	400	500	600	700
Weight of Poises, Lbs.	1, 4	1, 4	2, 8	2, 8	4, 8	4, 16	4, 16	8, 16	8, 16
Wt. Each Complete, Lbs.	8	8½	13½	16	18	21	28	32	38
Each	$1.50	1.60	1.90	2.10	2.50	2.90	3.50	4.00	4 66
	2.00	2.10	2.50	2.80	3.40	4.20	5.00	6.00	7 00

150 to 500 Lbs, One-half Dozen in a Box, with Poises; 600 and 700 Lbs, One half Dozen in a Box, Poises Separate

EXTRA POISES

Weight, Lbs.	1	2	4	8	16	32
Each	$0.20	30	40	75	1 50	2 50

SOUTHERN COTTON WEIGHING OUTFIT

Varnished Hardwood Frame, Bolted and Braced, Wrought Iron Levers, Chain Downhauls and Hooks, 7½ ft. Japanned Iron Beam with Smooth Top

	Each
No. 485—Capacity 700 Lbs. by 1 Pound, with 16 Lb. Poise	$59.00
	74 00
No. 202—Beam and Poise Only, Japanned	22 00
	34 00
No. 067—Frame and Downhauls Only	36 00
No. 067—Frame Only	32.00

The above outfit is especially manufactured for weighing bales of cotton and wool. Everything connected with it is made as light as it will answer and yet be strong and durable

SCALE WEIGHTS

Cast Iron, Japanned, for Portable Platform Scales

Weight, Lbs.	50	100	200
Each	$.....	.....	.....

COTTON WEIGHING OUTFIT PARTS

Test Weight

Poises

	Each
Test Weight—50 Pounds	$8 00
Extra Poise—16 Pounds	4 50
Balance Poise	1 50

Cotton Hooks, Wrought Iron

	Each
No. 006—Southern Pattern, Extreme Length 3 ft 4 in., Extreme Spread 4 ft.	$4 00
	8 00

GRAIN TESTERS

FAIRBANKS'

	Each
No. 3078—Capacity 2 Quarts	$22 00

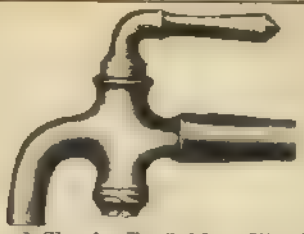
When the cup is empty the beam balances with the poise set at zero. Beam has three rows of graduations which indicate:

The number of pounds per bushel of sample.
The exact weight of sample.
The percentage of loss in cleaning.

HUEY & PHILP HARDWARE COMPANY.

BRASS FAUCETS

PLAIN BIBBS



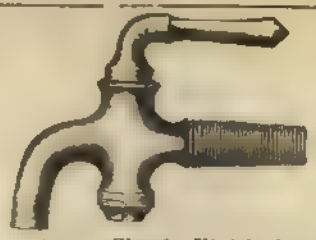
Tinned Shank, To Solder, Finished

Nos.	230	231	232	233	234	235
Inches	¼	⅜	½	⅝	¾	1
Wt. Doz., Lbs.	4	6	7	10	14	23
Per Dozen	$20.40	21.60	22.80	30.60	36.60	51.00
	9.60	10 50	11.00	14 50	18.00	25 00

Tinned Shank, To Solder, Nickel Plated

Nos.	230N	231N	232N
Inches	¼	⅜	½
Per Dozen	$24.60	25.80	27.00
	12.00	13.00	14 00

One-half Dozen in a Box



Screw Shank, Finished

Nos.	281	282	283
Inches	⅜	½	⅝
Wt. Per Dozen, Lbs..	6	7	10
Per Dozen	$23.40	24.60	37 80
	12.00	13.00	16 00

Nos.	284	285
Inches	¾	1
Wt. Per Dozen, Lbs..	14	28
Per Dozen	$40.80	57 00
	21.00	27 00

One-half Dozen in a Box

COMPRESSION PLAIN BIBBS

Screwed for Iron Pipe, Finished

Nos.	872	878
Inches	½	⅝
Weight Per Dozen, Lbs.	10	12
Per Dozen	$14.40	20.40
	8.50	11.50

One-half Dozen in a Box

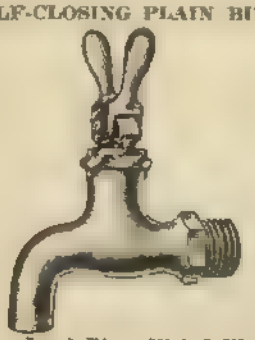
COMPRESSION HOSE BIBBS

Screwed for Iron Pipe, Finished

Nos.	892	893
Inches	½	⅝
Weight Per Dozen, Lbs.	11½	12½
Per Dozen	$16.80	22.80
	9.50	12.50

One-half Dozen in a Box

SELF-CLOSING PLAIN BIBBS



For Lead Pipe, Nickel Plated

No.	126
Inches	½
Weight Per Dozen, Lbs.	9
Per Dozen	$24.00

One-half Dozen in a Box

COMPRESSION LOCK COCKS

Loose Key, To Drive

Nos.	331
Inches	½
Weight Per Dozen, Lbs.	10
Per Dozen	$18.00
	11.00

One Dozen in a Box

BACKING COCKS

To Drive

Nos.	11	12
Inches	⅜	½
Weight Per Dozen, Lbs.	4½	6
Per Dozen	$10.00	13.00
	6.00	7.50

One Dozen in a Box

Loose Key, To Drive

Nos.	30	31
Inches	⅜	½
Weight Per Dozen, Lbs.	4¾	6¼
Per Dozen	$12.00	15.00
	7.50	9.00

One Dozen in a Box

DASH COILS.

CONNECTICUT TYPE X.

This Coil has been designed for the purpose of furnishing a spark for a less expensive Coil than the Standard Make Type Coil, and yet one that specially well constructed and has a good Spark for starting purposes and running on a Magneto or Battery Ignition. It is tuned up in the very best possible manner, but is considerably smaller than the Standard Type. It is guaranteed and built on the Split Switch with Screw Binding

Coil shown is Cylinder Type X Coil with Type D Switch Master Vibrator. Will be furnished at additional price as below.

	Each
No. 1145/1—1-Cylinder	$14.20
No. 1145/2—2-Cylinder	28.40
No. 1145/3—3-Cylinder	41.00
No. 1145/4—4-Cylinder	53.00
No. 1145/6—6-Cylinder	79.50

No. 1144.

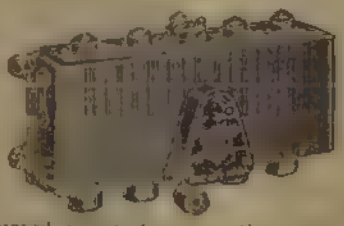
No. 1143.

	Each
No. 1144—Type X Two-Cylinder Type	$12.40
No. 1143—Type 4A Four-Cylinder	21.50

Weight each about 15 lbs.

VIBRATOR COILS.

CONNECTICUT MASTER.



This type of Coil is [illegible] Vibrator, which produces the Electrical Interruption in the Rhumkoff Windings.

With the ordinary type of Spark Coil en[illegible] Vibrator Independently, [illegible] used so as to secure the same [illegible] Coil with Vibrator [illegible] Master Vibrator [illegible] Coil will give a hotter spark for the [illegible] than a shunt Current would under the same conditions.

It will be [illegible] understood that there is but one Vibrator [illegible] Coil, and either [illegible] with [illegible] to be set for [illegible] the Top of [illegible] Coil [illegible] Coil [illegible] the pressure of which [illegible] Coil [illegible] Coil [illegible] [illegible] Coil [illegible] [illegible] Coil [illegible]

WOOD BENCH PLANES

SCIOTO

Seasoned Beechwood, Plain Finish
The Steel in all of the Irons or Bits, which are Fully Warranted, is of Superior Quality, and Great Care is Exercised in the Making and Tempering

SMOOTH

	Each
No. 8—8 in. Long, 2, 2⅛ and 2¼ in. Double Iron, Polished Start	$0.90
	1 30

Average Weight Each 1½ Pounds

JACK

	Each
No. 15—16 in. Long, 2, 2⅛ and 2¼ in. Double Iron, Polished Start	$1 00
	1 70

Average Weight Each 4 Pounds

FORE

	Each
No. 21—22 in. Long, 2, 2⅛ and 2¼ in. Double Iron, Polished Start	$1 70
	2 70

Average Weight Each 6 Pounds

JOINTER

	Each
No. 27—26 in. Long, 2, 2⅛ and 2¼ in. Double Iron, Polished Start	$1 80
	3 00

Average Weight Each 8 Pounds
All Above, Open Stock

FANCY WOOD PLANES

OHIO

Seasoned Beechwood, Plain Finish, Forged Tool Steel Cutters, Tempered and Polished

NOSING STEP

With Two Irons

	Each
No. 91—⅞, 1, 1⅛ and 1¼ in.	$1.10
	2 00
No. 91—1⅜ and 1½ in.	1 20
	2 20
No. 91—1¾ and 2 in.	1.50
	2.70

Average Weight Each 1½ Pounds
One in a Package

SKEW RABBET

	Each
No. 116—½, ⅝, ¾, ⅞ and 1 in.	$0 60
	1 10
No. 116—1¼ in.	65
	1 20
No. 116—1½ in.	70
	1 30
No. 116—1¾ in.	80
	1 30
No. 116—2 in.	.90
	1 50

Average Weight Each 1 to 2 Pounds
One in a Package

Note—Each Plane Cuts Only One Size. When Ordering Always Specify Both Number and Size

ADJUSTABLE IRON PLANES

STANLEY'S BED ROCK

This Plane, owing to its solidity and variety of adjustments, surpasses all others for fine work on all woods

The cutter, frog and bottom are so designed, machined and fitted that they are practically one solid piece of metal, thus preventing any chance of vibration

Particular attention is called to the shape of the sides. This new and distinctive feature adds greatly to the strength of the plane as well as affording large bearing surfaces when the plane is used on its sides

The frog may be adjusted either forward or backward without removing the lever and cutter, simply slacken the tension of the two frog clamping screws "B," and with a screw driver adjust the frog as desired by means of the frog adjusting screw "C" in the center, and then tighten the frog clamp screws (see cut).

The frog is held to its seat by means of two pins "A" of large diameter, each of these has a tapered hole near the lower end

The two frog clamping screws "B" have tapered points These points fit in the holes in the pins "A." The center of the tapered hole in these pins is slightly above the center line of the frog clamping screws, so that when these screws are driven in, they produce the effect of a wedge, drawing the pins downward and clamping the frog absolutely rigid in its place

The cutter is the regular "Bailey" Cutter and is adjustable both endwise and sidewise

The Handle and Knob are of well seasoned rosewood The shape of the Knob allows a firm and easy grip

SMOOTH

	Each
No. 602—7 in. Long, 1⅝ in Cutter Weight Each 2¼ Lbs.	$3 00
No. 603—8 in. Long, 1¾ in. Cutter, Weight Each 3⅛ Lbs.	3 20
No. 604—9 in. Long, 2 in. Cutter, Weight Each 3½ Lbs.	3 40

One in a Box

JACK, FORE AND JOINTER

	Each
No. 605—Jack, 14 in. Long, 2 in. Cutter, Weight Each 4½ Lbs.	$4 60
No. 606—Fore, 18 in. Long, 2⅜ in Cutter, Weight Each 7½ Lbs.	5.00
No. 607—Jointer, 22 in. Long, 2⅝ in. Cutter, Weight Each 8¾ Lbs.	5 70
No. 608—Jointer, 24 in. Long, 2⅝ in Cutter, Weight Each 9¾ Lbs	6 70

One in a Box

SMOOTH

With Corrugated Bottom

	Each
No. 602C 7 in. Long, 1⅝ in. Cutter, Weight Each 2¼ Lbs.	$3.00
No. 603C—8 in. Long, 1¾ in. Cutter, Weight Each 3⅛ Lbs.	3.20
No. 604C—9 in. Long, 2 in. Cutter, Weight Each 3½ Lbs	3.40

One in a Box

JACK, FORE AND JOINTER

With Corrugated Bottom

	Each
No. 605C—Jack, 14 in. Long, 2 in Cutter Weight Each 4½ Lbs.	$4 00
No. 606C—Fore, 18 in. Long, 2⅜ in Cutter, Weight Each 7½ Lbs.	5 00
No. 607C—Jointer, 22 in. Long, 2⅝ in Cutter, Weight Each 8¾ Lbs.	5 70
No. 608C—Jointer, 24 in. Long, 2⅝ in. Cutter, Weight Each 9¾ Lbs.	6 70

One In a Box

The Corrugated Bottom creates very little Friction and makes an easier running Plane than the smooth bottom

SAD IRONS

SELF-HEATING FAMILY CHARCOAL

Polished Cast Iron Base, Removable Cast Iron Top and Chimney Combined, Hardwood Handle and Tin Shield

Per Dozen

No. 1—Family Size, Weight 6 Lbs.....$21.00

Open Stock

SELF-HEATING TAILORS' CHARCOAL

Polished Cast Iron Base, Wood Handle with Shield, Single Flue

Each

No. 125—Weights 18, 24 and 26 Lbs $4 50

Open Stock

TAILORS' GOOSE

Per Pound

No. 150—Polished Face, Japanned Top, Weights 12, 14, 16, 18, 20, 22, 24 and 26 Lbs....$0.11

Open Stock

TAILORS' PRESSING

Per Pound

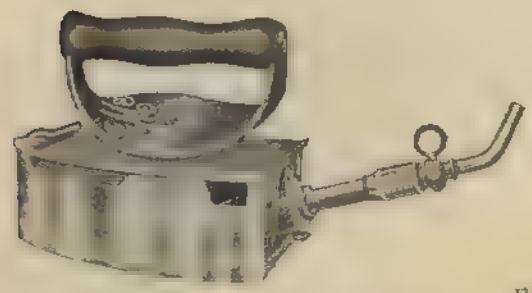
No. 200—Silver Polished Base, Japanned Top, Weights 14, 16 and 18 Lbs.....$0.11

Open Stock

GAS HEATED SAD IRONS

I. M. E. MODEL 1913

DOMESTIC AND LAUNDRY



Each

No. 0—Bottom 6x3 ½ in., Weight Each 5¾ Lbs., Complete with Iron Stand and 6 ft. Guaranteed Tubing with Connection.....$4 50

Ironing made easy, no smell, no smoke, no dirt. Every iron guaranteed perfectly safe.

One in a Box

TAILORS' GOOSE

Nos.	1	2
Bottom, Inches	10x4	10x4
Weight Each, Lbs.	16	18
Each	$9.00	10 00

Above prices include Stand but not Gas Hose

Each

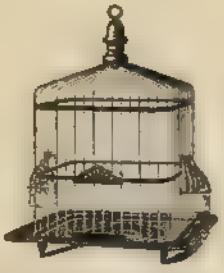
Steel Tube—6 ft., with Ends.....$1.20

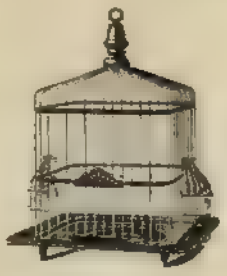
One in a Box

HUEY & PHILP HARDWARE COMPANY.

BIRD CAGES

JAPANNED, IN ASSORTMENTS





No. 159- 7½x7½ in. Body, 15 in High.
No. 160 8x8 in. Body, 15½ in High.

No. 02 -8½x6 in Body, 13½ in. High.
No. 161 8¾x8¾ in Body, 16½ in. High

No. 165—9½x6½ in. Body, 15¼ in. High
No. 166 10½x7 in Body, 16 in High

Per Case

Case 22—Contains Six Japanned Cages, One Each Nos. 159, 160, 02, 161, 165 and 166..... **$9.00**
Sold in Case Lots Only
Weight Per Case 25 Pounds

JAPANNED AND BRASS, IN ASSORTMENTS

JAPANNED CAGES

BRASS CAGES

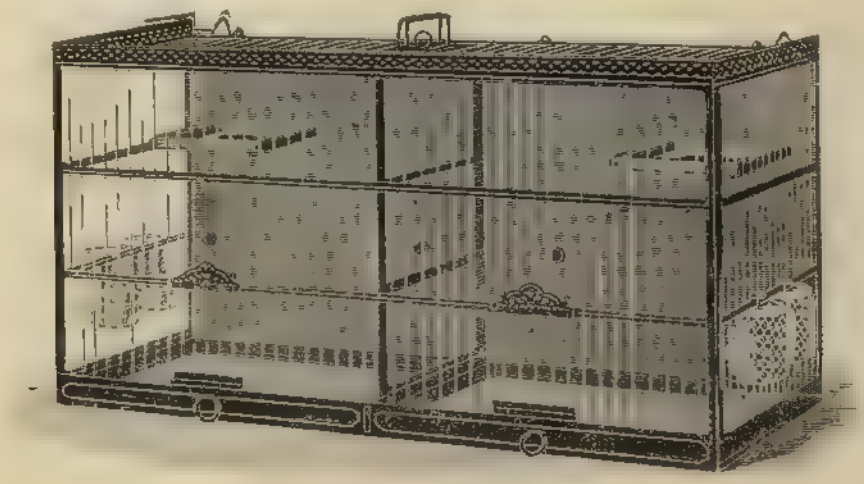
No. 065— 9¾x6½ in Body, 15½ in High
No. 066—10½x7 in. Body, 16 in. High.
No. 067—11 x7½ in. Body, 16½ in. High.

No. 5002— 9 x6 in Body, 11½ in. High.
No. 5004— 9⅝x6½ in. Body, 11¾ in. High.
No. 5006—10⅝x7⅛ in. Body, 12¼ in. High.

Per Case

Case 23 Contains Three Japanned Cages, One Each Nos 065, 066, 067 and Three Brass Cages, One Each Nos. 5002, 5004 and 5006 . . . . . **$12.50**
Sold in Case Lots Only
Weight Per Case 24 Pounds

BREEDING



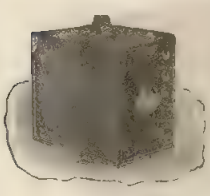
Per Dozen

No. 113—27x11 in., Height 15 in., Japanned with Partition Nest Holder and Two Drawers Opening in Front **$66.00**
Net Weight Per Dozen 96 Pounds
Open Stock

Seneca Box Film Cameras

(Improved.)

(For Daylight Loading Film Packs Only)



The Box Film Senecas are remarkable instruments; capable of registering a wide variety of work, all the way from charming landscape compositions to home portraiture; equipped with a Meniscus Achromatic Lens and Automatic shutter, time and instantaneous exposures, as well as a finder; and with the exception of the 2¼x3¼ size which possesses only the finger release on the shutter. Camera is covered with genuine seal grain leather. This style of Camera is for the film pack only which is easily inserted at the back and held in place by holding clamps at each end,—no springs or hooks to become broken and out of alignment. The Camera possesses two view finders—one for vertical and the other for horizontal pictures—and two tripod sockets. Made in three sizes.

Capacity—12 film exposures. The price includes the Camera complete with Instruction Book and Manual of Photography.

	9586	9587	9588
	2¼x3¼ Size Pictures.	3¼x4¼ Size Pictures.	3¼x5½ Size Pictures.
Seneca Box Film Camera	$5.50	$9.15	$10.90
Carrying Case for above Camera.	2.80	2.80	2.80

(Post Card)

	9589	9590	9591	9592	9593
Film Packs —Daylight Loading, 12 Exposures, Per Pack	2½x3½ $1.12	3¼x4¼ $1.96	3¼x5½ $2.25	4x5 $2.50	5x7 $4.50

Seneca Roll Film Cameras

Scout Box Cameras

For Roll Films. Takes 2½x3½ and 2½x4¼ Size Pictures.

No. 2 Scout

9594 For pictures 2½x3½ in., adapted to six exposure films (4A), 3¼x4¼x5½ in., constructed of wood or metal, covered with seal grain leather, fine quality fixed focus Meniscus lens, shutter enclosed within box and arranged for both snapshot and time exposures, diaghragm with two size openings, two finders for horizontal and vertical pictures, noiseless winding key, weight, 12 ounces. Each $4.25

9595 Six Exposure Films (4A). Per roll $0.42

9596 **No. 2A Scout.** For pictures 2¼x4¼ inches. Adapted to six or twelve exposure films. (6A or 6B), otherwise same as No. 2 Scout. Each $6.40

9597 Six exposure films (6A). Per roll $0.52

9598 Twelve exposure films (6B). Per roll $1.06

Folding Pocket SENCO No. 1

For Roll Film. Takes 2½x3½ Size Pictures.

9599 Price, complete.... $20.00

An instrument of considerable range, capable of doing very satisfactory work, even in the hands of the novice. It is a compact, folding Camera, easily carried in a pocket of any size, and entirely without confusing attachments, made of Aluminum and covered with Seal grain leather.

Dimensions of Camera—7x3½x1½ in.
Weight—16 ounces.
Focal Capacity—4½ inches.
View Finder—Brilliant, Reversible.
Shutter—Uno Automatic.
Manual of Photography
Instruction Book.
Tripod Sockets—Two.
Film Chamber—Improved.
Lens—Meniscus, Achromatic.

9600 Carrying Case with Strap $2.80

9601 Film Cartridge, 6 Exposures Per roll $0.50

9602 Film Cartridge, 12 Exposures. Per roll $1.00

Folding Pocket SENCO No. 3A

For Roll Film. Takes 3¼x5½ (Post Card) Size Pictures

9603 Price, Complete $34.65

Made of Aluminum and covered with Seal Grain Leather.

Its equipment, giving to the operator the complete range of exposure—instantaneous, bulb and time, brings it as near as this style of instrument can be brought, to the serious work of photography, and it can be handled with perfect surety of success by the merest beginner.

Dimensions—9¾x4¾x2 inches.
Front—Rising and falling
Film Chamber—Improved.
Tripod Sockets—Two.
Weight—28 ounces.
Focal Capacity—7 inches.
View Finder—Brilliant, reversible.
Lens—Meniscus Achromatic.
Shutter No. 1—Uno Automatic.
Manual of Photography.
Instruction Book

9604 Carrying Case with Strap $3.20

9605 Film Cartridge, 6 Exposures $1.00

9606 Film Cartridge, 10 Exposures $1.75

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

Buster Brown Box Cameras

FOR ROLL FILMS.

Write For Our Complete Camera Catalog 114

No. 2 Buster Brown Camera. For Films

9567 For pictures 2¼x3¼ in., adapted to six exposure films (4A), 3¼x4¼x5¼ in., wood throughout, covered with fine imitation leather, fine quality fixed focus meniscus lens, shutter enclosed within box and arranged for both snapshot and time exposures, dial marked with three size openings, two finders for horizontal and vertical pictures, noiseless winding key, weight, 14 ounces. Each . $4.50

9568 Carrying Case. Each..... 1.76

9569 Six exposure films, 2¼x3¼ (4A). Per roll.. .42

No. 2A Buster Brown Camera. For Films

9570 For pictures 2¼x4¼ inches, adapted to six or twelve exposure films (6A or 6B). 3¼x5¼x6 inches. Meniscus Achromatic Lens, otherwise same as 9567. Weight, 18 ounces. $7.00

9571 Carrying Case. Each. . . . 1.76

9572 Six exposure films, 2¼x4¼ (6A) Per roll .52

9573 Twelve exposure films, 2¼x4¼ (6B) Per roll, ... 1.00

ANSCO Box Cameras For Roll Films

No. 2 Ansco

9574 For pictures 3¼x4¼ inches, adapted for six or twelve exposure film (6A or 6B).

Dimensions, 4¾x5¼x6¾ inches. Weight, 20 ounces. Lens, high-grade Meniscus Achromatic. Shutter, for time and instantaneous exposures, enclosed within the box and having diaphragm with three different size openings. Two brilliant finders. Two tripod sockets. Noiseless winding key. Covered with genuine seal grain leather. Each $14.50

9575 Leather carrying case.. ... . 3.40

9576 Six exposure films, 3¼x4¼ (7A). Each.... .74

9577 Twelve exposure films, 3¼x4¼ (7B). Each. 1.48

No. 3 Ansco

9578 For pictures 4x5 inches, adapted for six or twelve exposure film (10A or 10B).

Dimensions, 5¼x8x7¼ inches. Weight, 31 ounces. Lens, fixed focus Meniscus Achromatic of high quality. Shutter, for time and instantaneous exposures, enclosed within the box and having diaphragm with three different size openings. Two brilliant finders and two tripod sockets. Noiseless winding key. Covered with genuine seal grain leather. Each $15.50

9579 Leather carrying case. Each . . 3.40

9580 Six exposure films, 4x5 (10A). Each.. .96

9581 Twelve exposure films 4x5 (10B) Each 1.92

3A ANSCO. POST CARD SIZE

9582 Post card size. For pictures 3¼x5½ inches; adapted for six or ten exposure film (18C or 18D). Dimensions, 5¼x6¾x7¼ inches. Weight, 36 ounces. Lens, fixed focus Meniscus Achromatic of high quality. Shutter for time and instantaneous exposures, enclosed within the box and having diaphragm with three different size openings. Two brilliant finders, two tripod sockets. Covered with genuine seal grain leather. Each..... . . . . $16.00

9583 Leather carrying case. Each. 3.40

9584 Six exposure films, 3¼x5¼ (18C). Each.. 84

9585 Ten exposure films, 3¼x5¼ (18D). Each.. . . . . 1.48

We Are "The House of Quality." You Can Be Sure That Anything You Get From Us Is ALL RIGHT.

"THE HOUSE OF QUALITY"

SETH THOMAS AND NEW HAVEN BRASS MANTEL CLOCKS

Highly Polished, with Beveled French Plate Glass Front, Sides and Back.

PRICE EACH

SETH THOMAS EMPIRE No. 13

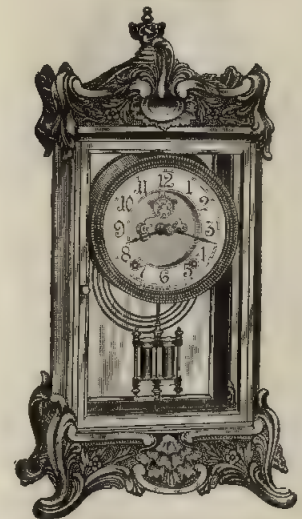
No. 11403

Eight Day Beveled French Plate Glass, Top, Base and Lion made in Rich Gold, Bronze or Verde Antique Body, Polished Gold Height Clock only, 11⅛ inches Height of Clock and Lion, 15¾ inches

Clock only $25.00

Clock with Lion 27.50

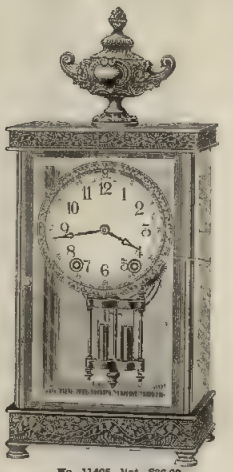
NEW HAVEN THOREAU



No. 11404, $32.00

Eight-Day Visible Escapement Height, 15¾ inches, width 8⅛ inches, 4-inch Porcelain Dial Ormolu Gold Plate with Beveled French Plate Glass Front, Sides and Back. Half-Hour Cathedral Gong

SETH THOMAS EMPIRE No. 5



No. 11405, list, $36.00

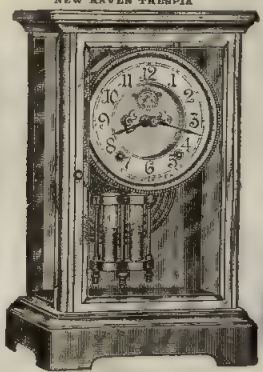
Eight-Day, Beveled French Plate Glass, Bronze Top and Base; Raised Gold Ornaments, Gold Urn and Body. Height, 14¼ inches Base, 6¾ inches.

NEW HAVEN TOLUCO

No. 11408, $34.75

Eight-Day Visible Escapement. Height, 12 inches; width, 8⅛ inches, 4-inch Porcelain Dial. Ormolu Gold Plate with Beveled French Plate Glass Front, Sides and Back. Half-Hour Cathedral Gong.

NEW HAVEN THESPIA



No. 11407, $29.00

Eight-Day Visible Escapement. Height, 10 inches; width, 6¾ inches; 4-inch Porcelain Dial. Ormolu Gold Plate with Beveled French Plate Glass Front, Sides and Back. Half-Hour Cathedral Gong

SETH THOMAS EMPIRE No. 1

No. 11406, list, $27.00

Eight-Day, Beveled French Plate Glass; Polished Gold Finish. Height, 10¾ inches. Base, 6¾ inches.

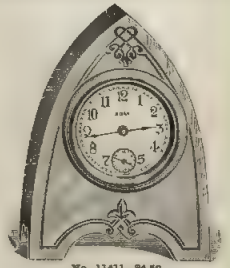
W. M. & Co. Cincinnati, O., U. S. A.

PARISIAN IVORY, SILVER FINISH DRESSER AND DESK NOVELTY CLOCKS

PRICE EACH

No. 11409, $4.25
Parisian Ivory, Silver Finish.
Dresser Clock, One-day Time.
Illustration One-Half Size.

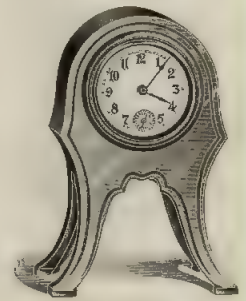
No. 11410, $4.50
Parisian Ivory, Silver Finish.
Desk Clock, One-day Time.
Illustration One-Half Size.



No. 11411, $4.50
Parisian Ivory, Silver Finish.
Desk or Dresser Clock, One-day Time
Illustration One-Half Size.

No. 11412, $4.50
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.

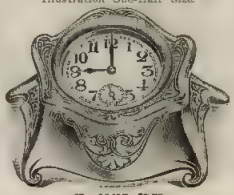
No. 11413, $5.00
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.



No. 11414, $5.50
Parisian Ivory, Silver Finish.
Dresser or Desk Clock [illegible]
Illustration One Half Size

No. 11415, $3.50
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.

No. 11416, $6.00
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.



No. 11417, $3.75
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.

No. 11418, $9.00
Parisian Ivory, Silver Finish.
Dresser or Desk Clock, One-day Time.
Illustration One-Half Size.

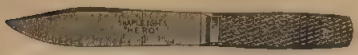
All above Clocks can be fitted with an Eight-day Movement at an additional cost of $3.00 list. It will take two weeks' time to change Movement.

HUNTING KNIVES

*DIAMOND EDGE

Per Dozen

No. 4—Scored Ebony Handle; Full Scale Tang, White Metal Hilt or Guard; **Finest Quality English Crucible Steel Blade,** Length 6 inches; Glazed and Etched; Full Crocus Polished Fancy Swaged Back; Complete with Heavy Russet Leather Sheath, Weight per Dozen 2¾ lbs. **$16.50**



*SHAPLEIGH'S HERO

Per Dozen

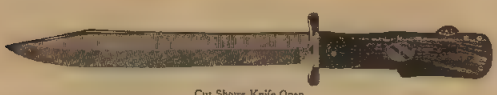
No. S2G—Scored Ebony Handle, Full Scale Tang, White Metal Bolster; Swaged Back Hunting Blade; Length 6 inches, Glazed Finish; Without Sheath; Weight per Dozen 3½ lbs **$4 75**

No. 1820

Solid Scored Ebony Handle; German Silver Bolster; Beveled Clip Blade, Glazed, Complete with Black Leather Sheath

Length Blade, inches	5	6
Weight per Dozen, Lbs.	4	5
Per Dozen	$31 50	33 00

Cut Shows Knife Closed



Cut Shows Knife Open

This Knife when Open is Intended as an Ordinary Hunting Knife in Killing Large Game, and when Closed it can be Used as a General Utility Knife About the Camp in Cleaning Fish Skinning Game, etc

Folding Pattern, Blade Locked in either Opened or Closed Positions; German Silver Hilt or Guard and Lock Button on Side, Steel Lock Button on Back Full Polished Beveled Clip Blade 7¼ inches Long When Open and 4¼ inches Long When Closed, Brass Lining Molded Complete with Black Leather Sheath, Weight per Dozen 7 lbs

Per Dozen

No. 8053 Buff—Buffalo Horn Handle **$72 60**

Per Dozen

No 8053ST—Patent Stag Handle **$72 60**

No. 1802—SPEAR

Patent Stag Handle, Full Scale Tang; German Silver Hilt or Guard, Beveled **Spear Blade;** Half Polished, Complete with Russet Leather Sheath

Length Blade, inches	5	6	7
Weight per Dozen Lbs.	1½	6	7½
Per Dozen	$14 80	17 00	18 70

No. 1802—DAGGER

Patent Stag Handle, Full Scale Tang, German Silver Hilt or Guard; Double Edge **Dagger Blade;** Full Polished, Complete with Russet Leather Sheath

Length Blade, inches	5	6	7
Weight per Dozen, Lbs	4½	5½	7½
Per Dozen	$14 80	17 00	18 70

No. 1802—CLIP

Patent Stag Handle; Full Scale Tang; German Silver Hilt or Guard Beveled **Clip Blade;** Half Polished; Complete with Russet Leather Sheath

Length Blade, inches	5	6	7
Weight per Dozen, Lbs	4½	5½	7½
Per Dozen	$14 80	17 00	18 70

NON-XLL—HUNTERS

Per Dozen

No. 1178—Solid Genuine Stag Handle; German Silver Hilt or Guard and Bolster, Beveled **Clip Blade,** Length 6 inches; Half Polished and Etched; Complete with Russet Leather Sheath; Weight per Dozen 5 lbs. **$21 00**

Half Dozen in Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

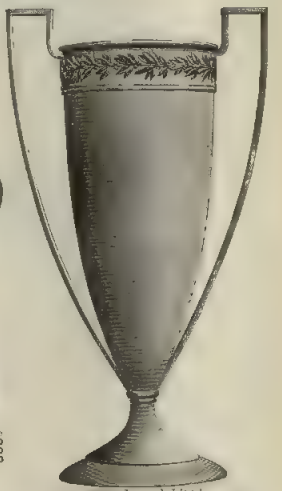
HIGHEST GRADE QUADRUPLE SILVER PLATED LOVING CUPS AND TROPHIES

PRICE EACH

No. 12848, Loving Cup, with Base $30.00
Burnished, with French Gray Handles.
Gold Lined.
Three Handles. Height, 16 inches
No. 12848, Price without Base $25.00

		Price Height with Base
No. 12850,	11 inches,	$10.50
No. 12851,	9¼ inches,	8.50
No. 12852,	7½ inches	6.00

Combination Polished and
French Gray Finish.
Two Handles Gold Lined



[illegible] and Lined
[illegible] Handles

No. 12853,	18¼ inches	$31.25
No. 12854,	16⅞ inches	25.00
No. 12855,	[illegible] inches	18.75
No. 12856,	[illegible] inches	13.00
No. 12857,	[illegible] inches	10.00
No. 12858,	[illegible] inches	8.50

No. 12859, Foot Ball Trophy, $20.75
Butler Finish Black Inlaid Engraved Lacing
Height with Ebonized Base, 15 inches

	Height	Without Base
No. 12860	8 inches	$8.50
No. 12861	7 inches	7.00
No. 12862	6 inches	4.75

Combination Polished and French
Gray Finish.
Two Handles Gold Lined

No. 12863, Polished, Engraved Gold
Lined $18.50
Height, 11 inches

HIGHEST GRADE QUADRUPLE SILVER PLATED LOVING CUPS AND TROPHIES

Illustrations One-Third Size

PRICE EACH

No. 12840. Loving Cup. $10.50
Polished Gold Lined.
Height, 10½ inches

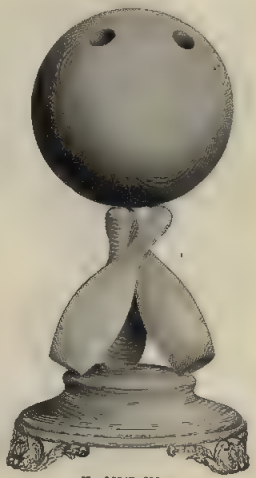
No. 12841. Loving Cup. $3.75
Polished. Gold Lined.
Height, 5¾ inches.

No. 12842. Loving Cup. $6.00
Height, 7½ inches
No. 12843. Loving Cup. $4.75
Height, 6¾ inches

No. 12845. Baseball Trophy. $12.00
Polished and Satin Combination
Gold Lined
Height, 12 inches

No. 12844. Baseball Trophy. $3.75
Satin Finish Ebony Base.
Height, 6½ inches.

No. 12846. [illegible] $4.50
Polished, Engraved, Gold Lined.
Height, 6⅝ inches.

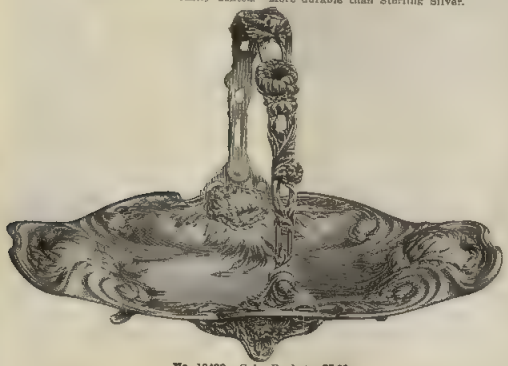


No. 12847. $15.25
Ball and Base Polished
Pins, Butler Finish.
Height, 12⅝ inches.

FINE QUADRUPLE SILVER PLATED CAKE BASKETS AND COMPOTIERS

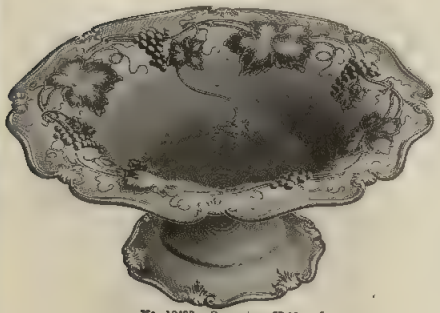
PRICE EACH

No. 12483, Egg Cup and Egg Cutter, $4.50
Insures a Sanitary Breakfast. Cuts Top off Egg without disturbing Yolk or crushing Shell. Made of Fine White Metal, Heavily Silver Plated, Sterling Finish, not easily dented. More durable than Sterling Silver.



No. 12490. Cake Basket **$7.00**
Polished and French Gray Finish

No. 12491. Cake **$2.65**
Satin Engraved Gold Lined.



No. 12492. Compote. **$7.00**
English Chased Grape Design, Polished.
Diameter, 10¼ inches.

No. 12493, $3.10
Satin Engraved.

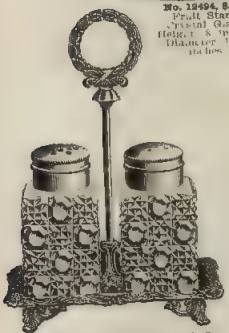
FINE QUADRUPLE SILVER PLATED FRUIT DISHES AND CASTERS

Illustrations One-Third Size

PRICE EACH

No. 12494. $5.75
Fruit Stand.
Crystal Glass.
Height 8 inches.
Diameter 11⅝ inches.

No. 12495. Fruit Dish. $3.00
Emerald or Crystal Glass. Polished Base.



No. 12498. Individual Caster $2.70
Cut Glass Cruets. Half Size.

Fruit and Flower Stand.
No. 12497. $5.00
Crystal Glass.
Height 17¼ inches.
Diameter, 11¼ inches.

No. 12498. Individual Caster $2.0
Polished. Half Size.

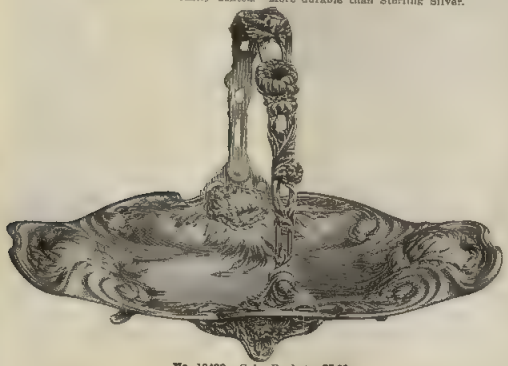
No. 12499. Fruit Dish. $3.50
Crystal Glass. Height, 11½ inches.

No. 12500. Fruit Dish. $3.00
Polished Base. Tinted Glass.

FINE QUADRUPLE SILVER PLATED CAKE BASKETS AND COMPOTIERS

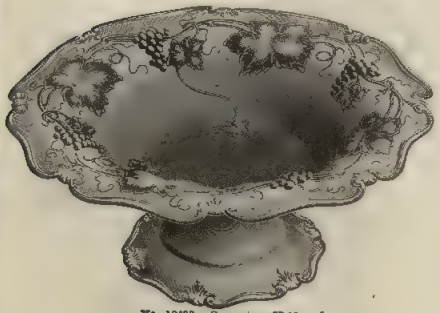
PRICE EACH

No. 12483, Egg Cup and Egg Cutter, $4.50
Insures a Sanitary Breakfast. Cuts Top off Egg without disturbing Yolk or crushing Shell. Made of Fine White Metal, Heavily Silver Plated, Sterling Finish, not easily dented. More durable than Sterling Silver.



No. 12490. Cake Basket **$7.00**
Polished and French Gray Finish

No. 12491. Cake **$2.65**
Satin Engraved Gold Lined.



No. 12492. Compote. **$7.00**
English Chased Grape Design, Polished.
Diameter, 10¼ inches.

No. 12493, $3.10
Satin Engraved.

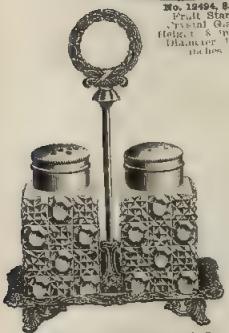
FINE QUADRUPLE SILVER PLATED FRUIT DISHES AND CASTERS

Illustrations One-Third Size

PRICE EACH

No. 12494. $5.75
Fruit Stand.
Crystal Glass.
Height 8 inches.
Diameter 11⅝ inches.

No. 12495. Fruit Dish. $3.00
Emerald or Crystal Glass. Polished Base.



No. 12498. Individual Caster $2.70
Cut Glass Cruets. Half Size.

Fruit and Flower Stand.
No. 12497. $5.00
Crystal Glass.
Height 17¼ inches.
Diameter, 11¼ inches.

No. 12498. Individual Caster $2.0
Polished. Half Size.

No. 12499. Fruit Dish. $3.50
Crystal Glass. Height, 11½ inches.

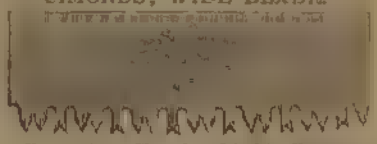
No. 12500. Fruit Dish. $3.00
Polished Base. Tinted Glass.

CROSS CUT SAWS.

WITHOUT HANDLES.

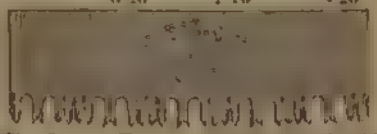
High Grade Crucible Steel, Crescent Ground, Polished and Etched; Teeth Filed and Set Ready for Use.

SIMONDS', WIDE BLADE.



Champion Tooth; 14x19 Gauge.

Nos.	SC. 1295½	SC. 1296	SC. 1296½	SC. 1297
Length, feet	5½	6	6½	7
Width at Center, inches	6½	7⅛	7⅝	8
Weight each net about, lbs	6	7	8	9
Each	$5.20	5.90	6.50	7.80
	6.20	7.10	8.20	9.40



SIMONDS' Lance Tooth (Perforated) 14x19 Gauge.

Nos.	SC. 1305	SC. 1306½	SC. 1306
Length, feet	5½	6	6
Width at Center, inches	6	6⅝	7⅜
Weight each net abt., lbs	6	6	7
Each	$4.30	5.10	5.90
	5.20	6.20	7.10

Nos.	SC. 1306½	SC. 1307
Length, feet	6½	7
Width at Center, inches	7⅜	8
Weight each net about, lbs	8	9
Each	$6.50	7.80
	8.20	9.40

Dexter Pattern Tooth; 14x19 Gauge.

Nos.	SC. 1315½	SC. 1316	SC. 1316½	SC. 1317
Length, feet	5½	6	6½	7
Width at Center, inches	6½	7¼	7⅞	8
Weight each net, lbs	6	7	8	9
Each	$5.20	5.90	6.80	7.80
	6.20	7.10	8.20	9.40

SIMONDS' FELLING, NARROW COTTONWOOD PATTERN

No. 3166

SIMONDS', Perforated Lance Tooth, 14x19 Gauge.

Nos.	3166	3166½	3167
Length, feet	6	6½	7
Width at Center, inches	6	6⅝	6⅞
Weight each net about, lbs	6½	7	7½
Each	$5.20	6.50	7.80
	7.10	8.20	9.40

Nos.	‡3166½	‡3168
Length, feet	6½	8
Width at Center, inches	7	7½
Weight each net about, lbs.	9	10½
Each	$8.90	10.00
	10.70	12.00

SIMONDS', Perforated Lance Tooth, 14x19 Gauge.

Nos.	3246	3246½	‡3247
Length, feet	6	6½	7
Width at Center, inches	6	6⅝	6⅞
Weight each net about, lbs	6½	7	7½
Each	$5.20	6.50	7.80
	7.10	8.20	9.40

Nos.	‡3266½	‡3268
Length, feet	6½	8
Width at Center, inches	7	7½
Weight each net about, lbs	9	10½
Each	$8.90	10.00
	10.70	12.00

SIMONDS' Champion Tooth, 14x19 Gauge.

Nos.	3286	3286½	‡3287
Length, feet	6	6½	7
Width at Center, inches	6	6⅝	6⅞
Weight each net about, lbs	6½	7	7½
Each	$5.20	6.50	7.80
	7.10	8.20	9.40

Nos.	‡3286½	‡3288
Length, feet	6½	8
Width at Center, inches	7	7½
Weight each net about, lbs	9	10½
Each	$8.90	10.00
	10.70	12.00

For 8½ inch, 10, 12 and 14 Wide Blade, Champion Tooth, Narrow Blade Swaged and Lance Tooth Narrow Blade Strip Weighing about 7 lbs.

‡Those marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

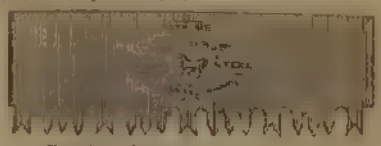
CROSS CUT SAWS.

WITHOUT HANDLES.

If Handles are Wanted, Invariably Specify Separately for Them.

ATKINS.

High Grade Crucible Steel; Polished and Etched; Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.



Dexter Tooth, Wide Blade.

ATKINS'; 14x18 Gauge.

Nos.	A1135½	A1136	A1136½	A1137
Length, feet	5½	6	6½	7
Width at Center, inches	6½	7⅛	7⅝	8
Wgt. each net about, lbs.	6	8	9	10
Each	$4.40	4.80	5.30	5.60
	5.30	5.80	6.30	6.80

ATKINS'; 14x19 Gauge

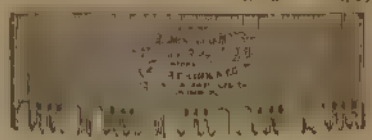
Nos.	A1235½	A1236	A1236½	A1237	A1237½
Length, feet	5½	6	6½	7	7½
Width at Center	6½	7	8	8⅛	8⅞
Weight each net about, lbs.	6	7	9	10	11
Each	$4.40	4.80	5.30	5.60	6.10
	5.30	5.80	6.30	6.80	7.20

‡ATKINS', Silver Steel; 14x18 Gauge

Nos.	‡A1136	‡A1136½	‡A1137
Width at Center, inches	7⅛	7½	8
Length, feet	6	6½	7
Weight each net about, lbs	7	8	9½
Each	$5.20	6.40	7.70
	7.10	8.20	9.30

‡ATKINS'; 14x16 Gauge.

Nos.	‡A1146	‡A1146½	‡A1147
Length, feet	6	6½	7
Width at Center, inches	7	7½	8
Weight each net about, lbs	8	9	10
Each	$4.56	4.96	5.32
	5.80	6.30	6.80



ATKINS' VICTOR.

Lance Tooth, Perforated, Wide Blade.

Special Steel; 14x18 Gauge.

Nos.	A1245½	A1246	A1246½	A1247
Length, feet	5½	6	6½	7
Width at Center, inches	6	6¾	7	7⅛
Weight each net abt., lbs	6	7	8	9
Each	$3.52	3.84	4.16	4.48
	4.30	4.70	5.00	5.30

ATKINS' PERFECTION.

Segment Ground, Silver Steel, 14x18 Gauge

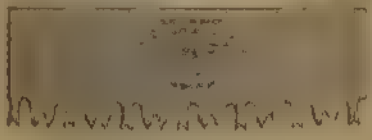
Nos.	A1285½	A1286	A1286½	A1287
Length, feet	5½	6	6½	7
Width at Center, inches	6¾	7¼	7⅞	7⅞
Wgt. each net about, lbs.	5	6	8	9
Each	$4.50	5.60	6.40	7.30
	5.80	6.80	7.70	8.80

ATKINS' No. 4 PERFECTION

Lance Tooth, Perforated, Narrow Cottonwood Style.

Silver Steel, 14x19 Gauge.

Nos.	A1250	A1250½
Length, feet	5½	6
Width at Center, inches	5	5½
Weight each net about, lbs.	6¾	6¾
Each	$5.20	6.50
	6.80	7.50



Tuttle Tooth, Wide Blade.

‡ATKINS'; 14x16 Gauge.

Nos.	‡A1166	‡A1166½
Length, feet	6	6½
Width at Center, inches	7	7½
Weight each net about, lbs	7½	8
Each	$3.20	4.00

Strip Weighing about 7 lbs.

‡Those marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

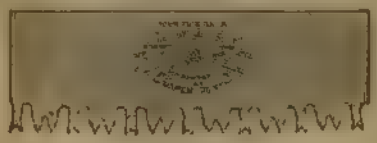
CROSS CUT SAWS.

WITHOUT HANDLES.

If Handles are Wanted, Invariably Specify Separately for Them.

ATKINS.

High Grade Crucible Steel; Polished and Etched; Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.



Tuttle Tooth, Wide Blade.

ATKINS'; 14x18 Gauge.

Nos.	A1175	A1175½	A1176	A1176½	A1177
Length, feet	5	5½	6	6½	7
Width at Center, inches	6¾	6¾	7	7¼	8
Weight each net about, lbs.	5	6½	7½	8	9
Each	$2 60	2 83	3 12	3 38	3 64
	3.20	3.50	3.80	4.10	4.40

ATKINS'; 14x19 Gauge.

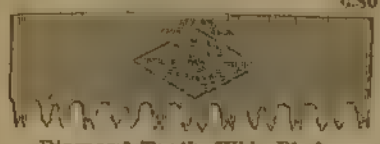
Nos.	A1205½	A1206	A1206½	A1207
Length, feet	6½	6	6½	7
Width at Center, inches	6⅝	7	7⅛	8
Weight each net about, lbs	5	6	8	8½
Each	$3 36	3 62	3 88	4 15
	4.10	4.40	4.70	5.00

ATKINS', Silver Steel; 14x20 Gauge.

Nos.	A1215½	A1216	A1216½	A1217
Length, feet	5½	6	6½	7
Width at Center, inches	6⅝	7	7⅛	8
Weight each net about, lbs	6	7	7½	8½
Each	$4 80	5.60	6.40	7 30
	5 80	6.80	7.70	8.80

ATKINS' PEERLESS.
Tuttle Tooth, Narrow Cottonwood Style.
Silver Steel, 14x19 Gauge.

Nos.	A1266	A1266½
Length, feet	6	6½
Width at Center, inches	6	6¼
Weight each net about, lbs.	5¾	6¾
Each	$5 60	6 40
	6.80	7.70



Diamond Tooth, Wide Blade.
ATKINS' LONE STAR; 14x18 Gauge.

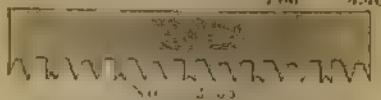
Nos.	A1295½	A1296	A1296½
Length, feet	5½	6	6½
Width at Center, inches	5½	5¾	6¼
Weight each net about, lbs.	4½	5	5½
Each	$3 30	3.60	3.90
	4 00	4.40	4.70

‡ATKINS', 14x16 Gauge.

Nos.	‡A1285½	‡A1286	‡A1286½
Length, feet	5½	6	6½
Width at Center, inches	6	7¼	7⅝
Weight each net about, lbs.	5	7	8
Each	$3 68	4 36	5.04
	4.00	4 30	4.70

ATKINS'; 14x18 Gauge.

Nos.	A1195½	A1196	A1196½
Length, feet	5½	6	6½
Width at Center, inches	6⅝	7	7¾
Weight each net about, lbs.	6	7	8
Each	3 30	3 60	3 90
	4 00	4.40	4.70



NARROW BLADE.
ATKINS', Tuttle Tooth; 14 Gauge.

Nos.	A2055	A2055½	A2056	A2056½	A2057
Length, feet	4	4½	5	5½	6
Width at Center, in.	3¾	3¾	3¾	3¾	3¾
Weight each net about, lbs.	4	4	5	5½	6
Each	$1 80	1 1	1 78	1 92	1 95
	2.00	2 20	2.30	2.50	2.70

ATKINS', Diamond Tooth; 14 Gauge.

Nos.	A2075	A2075½	A2076
Length, feet	5	5½	6
Width at Center, inches	3¾	3¾	3¾
Weight each net about, lbs.	4½	4½	4½
Each	$1 65	1 85	1 80
	2.30	2.50	2.70

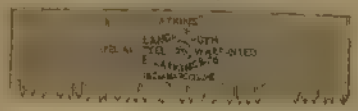
For Shipment One to Six Wide Blade, and One to Two Narrow Blade Saws, as Ordered are Wired to a Board or Strip Weighing about 7 lbs.

CROSS CUT SAWS.

WITHOUT HANDLES.

ATKINS'.

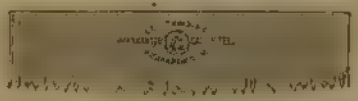
High Grade Crucible Steel; Polished and Etched; Wide Blade, Ground Gradually Thinner from Teeth to Back; Teeth Filed and Set Ready for Use.



‡ATKINS', Lance Tooth, Not Perforated; 14x18 Gauge.

Nos.	A1304	A1304½	A1305	A1305½	A1306
Length, feet	4	4½	5	5½	6
Width at Center, inches	5½	6⅛	6⅛	6½	7
Weight each net about, lbs.	5	5½	6	6½	7
Each	$2 44	2.97	3.30	3.63	3.96
	3.40	3.80	4.20	4.60	5.10

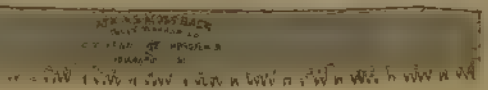
Nos.	A1306½	A1307	A1307½	A1308
Length, feet	6½	7	7½	8
Width at Center, inches	7⅛	8	8⅛	8¼
Weight each net about, lbs.	9¼	10½	12½	14½
Each	$4 30	4 62	4.95	5 28
	5.50	5.90	6.30	6.70



‡ATKINS', Sheffield Tooth; 14x16 Gauge or 14x18 Gauge.

Nos.	A1314	A1314½	A1315	A1315½	A1316
Length, feet	4	4½	5	5½	6
Width at Center, inches	5⅛	5⅝	5⅞	6⅛	7
Weight each net about, lbs.	5	5½	6	6½	7
14x16 Gauge, each	$1 84	2 08	2 30	2 54	2 76
	2.40	2.70	3.00	3.30	3.50
14x18 Gauge, each	2 00	2.26	2 50	2 76	3 00
	2.60	2.90	3.20	3.50	3.80

Nos.	A1316½	A1317	A1317½	A1318
Length, feet	6½	7	7½	8
Width at Center, inches	7⅞	7⅞	8	8⅛
Weight each net about, lbs.	9¼	10½	12½	14½
14x16 Gauge, each	$2 99	3 22	3 46	3 68
	3.80	4.10	4.40	4.70
14x18 Gauge, each	3 26	3 50	3 76	4 00
	4.20	4.50	4.80	5.10



No. A1394.

‡MOSS BACK PATTERN; Wide Blade.
‡ATKINS', Columbian; Moss Back, Special Steel, Lance Tooth, NOT PERFORATED; 14x18 Gauge.

Nos.	A1384	A1384½	A1385	A1385½	A1386
Length, feet	4	4½	5	5½	6
Width at Center, inches	5	5⅛	5⅛	6⅛	6¼
Weight each net about, lbs.	4	4½	5½	6	7
Each	$2 64	2 97	3 30	3 64	3 95
	3.10	3.50	4.20	4 60	5.10

Nos.	A1386½	A1387	A1387½	A1388
Length, feet	6½	7	7½	8
Width at Center, inches	6½	6⅝	7	7¼
Weight each net about, lbs.	8	9½	11	12½
Each	$4 29	4 62	4 95	5.28
	5.50	5.90	6.30	6.70

ATKINS', Columbian; Moss Back, Special Steel, Lance Tooth, PERFORATED; 14x18 Gauge.

Nos.	‡A1394	‡A1394½	‡A1395
Length, feet	4	4½	5
Width at Center, inches	5	5⅛	5½
Weight each net about, lbs.	4	4½	5¼
Each	$2 80	3 15	3 50
	3.60	4.00	4.50

Nos.	A1395½	A1396	A1396½
Length, feet	5½	6	6½
Width at Center, inches	5⅞	6¼	6⅝
Weight each net about, lbs.	6	7	8
Each	$3 85	4 20	4 55
	4.70	5.10	5.50

Nos.	‡A1397	‡A1397½	‡A1398
Length, feet	7	7½	8
Width at Center, inches	6¾	7	7¼
Weight each net about, lbs.	9	11	12½
Each	$4 90	5 25	5 60
	6.30	6.70	7.10

For Atkins' Saw, 14x19 Gauge, Advance List 50c 67c each over 14x18 Gauge.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

CATCHERS' MITTENS.

SIMMONS AMERICAN*.

Showing Lacing Feature and New Style Wrist Protection.

Made expressly for Hard Usage and Championship Play, after the most Approved Design according to the ideas of the Best Catchers on the Big League Teams; Absolutely nothing but the Finest Quality, Extra Selected OILED, CHROME TANNED, TAN COLOR CALFSKIN used in this Mitten; Padded correctly throughout, with the Finest Quality Felt Padding, Hand Sewed in a special manner so as to form a Perfect Deep Pocket, Black Roll Leather Binding; Black Leather Welt; Metal Eyelets, Laced with Rawhide; Double Stitched Throughout; Strap and Leather Covered Buckle Fastening at Wrist; Also New Style Wrist Protector which Prevents Strap from Injuring the Wrist. This is positively the Best Catchers' Mitten made.

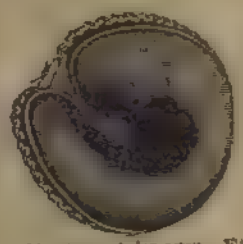
Per Dozen

No. S/40—SPECIAL LEAGUE PATTERN LACED..$110.00

Made of Finest Quality CHROME TANNED BLACK CALFSKIN; Best Grade Asbestos Felt Padding, so constructed that it positively will not become disarranged; Edge Full Laced with Rawhide, which permits Player to Adjust Padding; White Roll Leather Binding and Welted Seam; Double Stitched Throughout; Patented Reinforcement at Back; Patent Fastening with substantial Strap and Buckle prevents injury to Wrist and permits of Smallest Adjustment known; Finger Divisions on Back.

Per Dozen

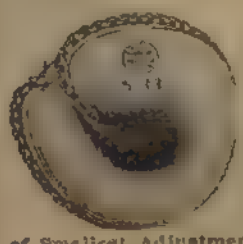
No. S/39—PROFESSIONAL; BROKE IN.. ....$104.00



Finest Quality CHROME TANNED OLIVE GREEN HORSEHIDE; Best Grade Asbestos Felt Padding, so constructed that it positively will not become disarranged; Edge Full Laced with Rawhide, which permits Player to Adjust Padding; White Roll Leather Binding and Welted Seam; Double Stitched throughout; Patented Reinforcement at Back; Patent Fastening with Substantial Strap and Buckle, prevents injury to Wrist and permits of Smallest Adjustment known, Finger Divisions on Back.

Per Dozen

No. S/34—LEAGUE PATTERN; BROKE IN.....$78.00



CHROME TANNED PEARL CALFSKIN Face, Band and Fingers; TAN CALF Back; Best Grade Asbestos Felt Padding, so constructed that it positively will not become disarranged; Edge Full Laced with Rawhide, which permits Player to Adjust Padding, Olive Green Roll Leather Binding and Welted Seam; Double Stitched throughout; Patented Reinforcement at Back; Fastening with Substantial Strap and Buckle, prevents injury to Wrist and permits of Smallest Adjustment known; Finger Divisions on Back.

Per Dozen

No. S 33—LEAGUE MODEL; BROKE IN.... ... $65.00

CHROME TANNED RUSSET CALF PALM AND FINGERS, PEARL CALF BACK, BLACK LEATHER BACK, Wool Padded Binding; Triple Stitched, Felt Asbestos Felt Padding, Rawhide Laced; Patent Reinforcement on Back; Fastened with Strap and Buckle, So Arranged as to Afford Absolute Protection to Wrist from Chafing or Injuries. Per Dozen

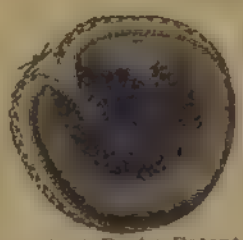
No. S 35—LEAGUE PATTERN; BROKE IN $50.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 36 lbs.

All Styles furnished either RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

CATCHERS' MITTENS.

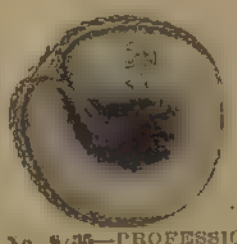
SIMMONS AMERICAN*.



CHROME TANNED BLACK COWHIDE FACE, PEARL BAND AND BLACK FINGERS; HEAVY BLACK LEATHER BACK, Good Quality Felt Padding, so constructed that it forms a Deep Natural Pocket and it positively will not become disarranged; Edge Full Laced with Rawhide, which permits Player to adjust Padding; Maroon Roll Leather Binding and Welted Seam; Double Stitched Throughout; Patented Reinforcement at Back; Patented Wrist Fastening, with Substantial Strap and Buckle, permits of Smallest Adjustment known, Finger Divisions on Back.

Per Dozen

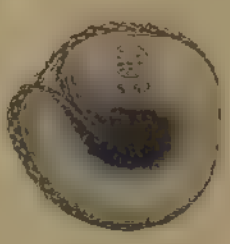
No. S/37—LEAGUE SPECIAL $52.00



SMOKED CHROME TANNED BALBOA CALF LEATHER Palm and Fingers; RUSSET HORSEHIDE Band and PEARL GRAY Back, High Grade Felt Padding; Edge Full Laced with Rawhide, permits Player to Adjust Padding; Tan Roll Binding; Double Stitched throughout; Patented Reinforcement at Back; Heavy Strap at Wrist; Finger Divisions on Back.

Per Dozen

No. S/35—PROFESSIONAL MODEL; BROKE IN...$39.00



LACED; SMOKED CHROME TANNED HORSEHIDE FACE, HEAVY TAN LEATHER BACK, FINGERS AND BAND; Light Welt Binding and Welt, Metal Eyelets; Cord Lacing; Improved Thumb Fastening; Strap and Buckle Fastening at Wrist; Well Padded; Finger Divisions on Back.

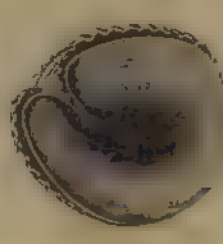
Per Dozen

No. S 32—MEN'S SIZE .. $30.00

LACED, PEARL CALFSKIN FACE AND FINGERS, TAN LEATHER BACK AND BAND; Black Leather Welt Substantial Binding; Metal Eyelets Cord Lacing; Improved Thumb Fastening; Deep Pocket, Strap and Buckle Fastening at Wrist; Well Padded; Finger Divisions on Back.

Per Dozen

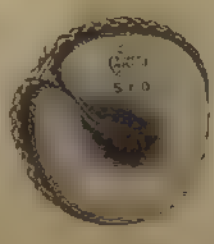
No. S 62—MEN'S SIZE $30.00



BROWN CHROME TANNED CAPE Palm and Fingers, BLACK CAPE Band and Back; White Welt Orange Leather Binding; Edge Full Cord Laced, which permits Player to Adjust Padding; Patented Reinforcement at Back; Heavy Strap at Wrist; Finger Divisions on Back.

Per Dozen

No. S 57—BROKE IN $24.00



LEATHER LINED PEARL LEATHER FACE AND FINGER, BLACK LEATHER BAND AND GREEN LEATHER BACK; Substantially Bound, Double Stitched Edges; Full Cord Laced, which permits Player to adjust Padding; Strap and Buckle Fastening at Wrist; Well Padded; Deep Natural Pocket; Finger Divisions on Back.

Per Dozen

No. S 60 — INTERSCHOLASTIC MODEL $17.50

One-twelfth Dozen in a Cardboard Box.

Weight per Dozen about 18 lbs.

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

CATCHERS' MITTENS.

SIMMONS AMERICAN.

HEAVY BLACK CHROME TANNED FACE, BACK, BAND AND FINGERS. Substantially Bound; Double Stitched Edge; Full Cord Laced, which permits Player to adjust Padding; Strap and Buckle Fastening; Deep Natural Pocket; Well Padded; Finger Divisions on Back.

Per Dozen

No. S 61 — INTERSCHOLASTIC MODEL $17.50

Weight per Dozen about 18 lbs.

BROWN COLORED CHROME TANNED LEATHER FACE AND FINGERS; BLACK LEATHER BAND AND BACK; Substantially Bound; Full Cord Laced, which permits Player to adjust Padding; Deep Natural Pocket; Well Padded; Finger Divisions on Back.

Per Dozen

No. S 70 – HIGH SCHOOL MODEL $16.00

Weight per Dozen about 15 lbs

CHROME TANNED HEAVY BLACK LEATHER Face and Fingers, DRAB COLORED OOZE SKIN Back and Band. Substantially Bound; Edge Full Cord Laced, which permits Player to Adjust Padding; Strap and Buckle Fastening at Wrist; Finger Divisions on Back.

Per Dozen

No. S 66X—BROKE IN, CADET SIZE $12.00

Weight per Dozen about 14 lbs.

RAVEN TANNED HEAVY RED SHEEPSKIN Face and Fingers, OLIVE GREEN SHEEPSKIN Back and Band; Substantially Bound Edge; Well Padded, Laced with Cord at Heel, which permits player to arrange Padding; Deep Pocket, Strap and Buckle Fastening at Wrist, Patent Thumb Lacing; Finger Divisions on Back.

Per Dozen

No. S 67 CADET SIZE $9.00

Weight per Dozen about 12 lbs.
One-twelfth Dozen in a Cardboard Box.

OLIVE TANNED LEATHER FACE, BACK, BAND AND FINGERS. Substantially Bound Edge, Strap and Buckle Fastening at Wrist; Well Padded; Deep Pocket; Finger Divisions on Back. The Best Mitt at the Price on the Market.

Per Dozen

No. S 65—BOYS' SIZE $4.50

One-half Dozen in a Cardboard Box; Weight per Dozen about 10 lbs.

BASEMEN'S MITTENS.

SIMMONS AMERICAN.

Finest Selected TAN COLORED CHROME TANNED ALASKA CALFSKIN, Full Leather Laced, which permits Player to Adjust Padding to suit; Padded with Best Quality Felt, Sewed and Shaped by hand to form the Necessary Pocket; Olive Green Roll Leather Bound Strap and Buckle Fastening at Wrist. New Style Wrist Protector, which prevents the Straps from injuring the Wrist; This is the Hinge Model used by One of the Leading First Basemen in the National League; It is the Finest First Baseman's Mitt made

Per Dozen

No. SM6 PROFESSIONAL; EXTRA LARGE PATTERN $45.00

Weight per Dozen about 12 lbs.
One-twelfth Dozen in a Cardboard Box.

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

BASEMEN'S MITTENS.

SIMMONS AMERICAN.

Finest Quality DARK RUSSET CHROME TANNED CALFSKIN, Soft and Flexible, Black Leather Panel Center in Back; Highest Grade Asbestos Felt Padding; Rawhide Lacing at edge allows Player to Adjust Padding; Finger Divisions on Back; Strap and Buckle Fastening at Wrist; Tan Roll Leather Binding

Per Dozen

No. SM1—PROFESSIONAL MODEL $52.00

Finest Quality BLACK CHROME TANNED COWHIDE Palm, BLACK NAPA Back with Brown Leather Panel; Soft and Flexible; Asbestos Felt Padding; Rawhide Lacing at Edge allows Player to Adjust Padding; Finger Divisions on Back; Strap and Buckle Fastening at Wrist; White Roll Binding.

Per Dozen

No. SM4—PROFESSIONAL MODEL $39.00

Extra Fine Quality SMOKED HORSEHIDE Face, Velvet Finish BLACK CAPE Back; Light Weight Leather Binding; Well Padded with Felt; String Lacing at Edge allows Player to Adjust Padding; Finger Divisions on Back; Strap and Buckle Fastening at Wrist.

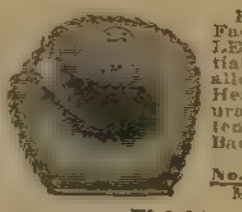
Per Dozen

No. SM5—PROFESSIONAL MODEL; FULL SIZE..... $26.00

OLIVE GREEN LEATHER FACE, BLACK LEATHER BACK AND LINING; Substantially Bound String Laced Edge allows Player to Adjust Padding; Strap and Buckle Fastening at Wrist; well Padded; Finger Divisions on Back.

Per Dozen

No. SM7 — PROFESSIONAL MODEL; FULL SIZE... $17.00

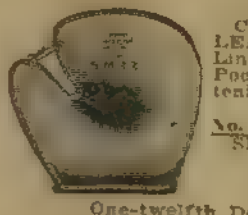


HEAVY TAN COLORED LEATHER Face, OX BLOOD COLORED LEATHER Back and Lining; Substantially Bound String Laced Edge allows Player to Adjust Padding; Heavily Padded, forming Deep Natural Pocket; Strap and Buckle Fastening at Wrist; Finger Divisions on Back.

Per Dozen

No. SM9 — PROFESSIONAL MODEL; FULL SIZE $13.50

Weight per Dozen about 10 lbs.



CHROME TANNED PEARL LEATHER Face and Back, Kaak Lined; Well Padded with Felt; Deep Pocket, Bound at Edges. Button Fastening at Wrist

Per Dozen

No. SM13—GOOD PATTERN; FULL SIZE $9.00

Weight per Dozen about 8 lbs

One-twelfth Dozen in a Cardboard Box.

CHROME TANNED HEAVY PEARL CALIFORNIA LEATHER Good Felt Padding, Kaak Lined. The Best Boys' Baseman's Mitt on the Market.

Per Dozen

No. SM13B—BOYS' SIZE $5.00

One-half Dozen in a Cardboard Box
Weight per Dozen about 6 lbs

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

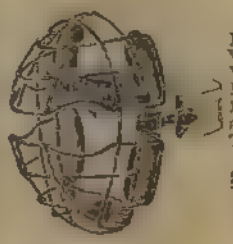
CATCHERS' MASKS.

SIMMONS' AMERICAN.

Electric Welded Frame; Latest Construction—No Wire in Center to obstruct the Vision; Solid Joints as though made of One Piece of Steel; No Unnecessary Weight; Dull Black Enamel Finish. Hair Stuffed Kid Leather Long Face Pads, Neatly Brass Wired to Frame; Moulded and Riveted Chin Rest. Special Head Band.

Per Dozen

No. A3—MEN'S REGULATION SIZE; Weight per dozen about 21 lbs. $30.00



Heavy Electric Welded Wire Frame, Latest Construction—No Wire in Center to obstruct the Vision; Dull Black Finish; Four Fine Leather Hair Stuffed Pads, Brass Wired to Frame; Forehead and Chin Rest; Adjustable Leather Tipped Elastic Head Band.

Per Dozen

No. A5—MEN'S REGULATION MASK. Weight per dozen about 16 lbs. $24.00

Heavy Electric Welded Wire Frame, Dull Black Finish; Four Fine Leather Hair Stuffed Pads, Brass Wired to Frame; Forehead and Chin Rest; Adjustable Leather Tipped Elastic Head Band.

Per Dozen

No. A6—YOUTHS' EXTRA QUALITY; Weight per dozen about 15 lbs. $18.00

Heavy Electric Welded Wire Frame, Dull Black Finish, Four Fine Leather Faced Pads, Brass Wired to Frame Adjustable Leather Tipped Head Band

Per Dozen

No. A7—YOUTHS' EXTRA QUALITY. Weight per dozen about 12 lbs. $12.00

One-twelfth Dozen in a Cardboard Box.

Heavy Electric Welded Wire Frame; Long Canvas Face Pads; Elastic Head Strap.

Per Dozen.

No. A8—BOYS' LARGE SIZE; Weight per dozen about 8 lbs. $8.00

Electric Welded Steel Wire Frame, Long Leatherette Faced Pads; Elastic Head Strap.

Per Dozen.

No. A9—BOYS' SMALL SIZES; Weight per dozen about 4 lbs. $3.50

One-half Dozen in a Cardboard Box

BODY PROTECTORS.

SIMMONS AMERICAN.

Best Rubber Cloth, White Color; With Elastic Straps 1 in. Wide

No. 3P—MEN'S PROFESSIONAL PNEUMATIC; Weight each about 3 lbs. Each $8.50

One in a Cardboard Box

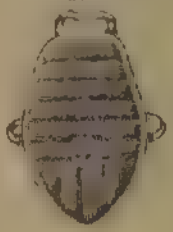
No. 1P—MEN'S LEAGUE PNEUMATIC; Best Rubber Cloth, Gray Color; With Elastic Straps 1 in. Wide, Weight each about 3 lbs. $7.50

No. 2AP—MEN'S SPECIAL PNEUMATIC; Best Rubber Cloth, Tan Color; With Elastic Straps 1 in. Wide; Weight each about 2½ lbs. $6.00

One in a Cardboard Box

No. 1BP—BOYS' AMATEUR PNEUMATIC; Rubber Cloth, Tan Color With Elastic Straps 1 in. Wide Weight each about 2½ lbs. $5.50

Six in a Cardboard Box



Each

No. 2C—MEN'S Heavy Brown Canvas, Padded with Best Felt; With Elastic Straps 1 in. Wide; Weight each about 2¾ lbs. $2.50

One in a Cardboard Box

Each

No. 3BC—BOYS' Heavy Brown Canvas, Padded with Best Felt; With ⅝ in. Web Strap; Weight each about 1¾ lbs. $1.50

Six in a Cardboard Box

BASES.

No. 1—LEAGUE. Regulation Size; Heavy White Duck, Quilted Top; Filled with Hair; Complete with Wrought Iron Spikes and Heavy Rubber Strap; Size 14½x14½x3 in. Weight per set about 16 lbs. Per Set of Three $10.00

No. 2—AMATEUR. Regulation Size; Medium Weight White Duck; Filled with Excelsior Complete with Iron Spikes and Heavy Web Rubber Straps Size 14½x14½x3 in. Weight per set about 12 lbs. ..... Per Set of Three, $7.00

No. 3—REGULATION SIZE Light Weight White Duck NOT STUFFED, Laced at One Side so that it can be Filled and Emptied, Size when Stuffed 14 x 14 x 3 in.; Weight per set about 1 lb. ..Per Set of Three $1.50

HOME PLATES.

No. 5 SIMMONS AMERICAN No. 1 New Style White Rubber Complete with Pins, 17 in. Long, 8½ in. Wide at Ends, 7 in. Wide at Middle 1 in. Thick; Weight each about 17 lbs. ..Each $10.00

PITCHER'S BOX.

No. 6—SIMMONS AMERICAN No. 1 Hard White Rubber, Regulation Size Size 24x6x1 in. Complete with Pins; Weight each about 9 lbs. ..... Each $7.00

One in a Paper Package.

INDOOR BASES.

No. 10—REGULATION SIZE; Made of 10 oz. White Duck; Not Stuffed; Laced Leather Tab with Staple for Fastening to Floor; Size 13x13x3 in.; Weight per set about 1 lb. ..... Per Set of Three, $5.00

No. 20—RUBBER HOME PLATE; Black Color; Size 15x12x¼ in.; Weight each about 1 lb. ..... Each, $1.20

Packed Loose

BASE BALL BATS.

SIMMONS SWATTER®.

After a long preparation, we take pleasure in announcing that we now have ready for the market our high-grade Base Ball Bat, known as the

SIMMONS SWATTER®.

Made under our personal supervision and direction, with the greatest care exercised in the Grading Inspection and Finish, we unhesitatingly offer, as the finest Base Ball Bat that can be or that has been produced, the

SIMMONS SWATTER®.

These Bats are made from the finest stock, carefully selected, of second growth Ash—grown in Ohio and Indiana—which our many years of experience has proven to be the most serviceable and best material available for this purpose. The wood is carefully inspected in the stump and then is split, not sawed. It is then stacked under cover for at least one year, so that each individual stick is thoroughly air dried and tempered. This method is much more expensive and consumes a much longer time than the commonly used method of kiln drying. Kiln drying takes the life (oil) from timber entirely, out of the sticks and the finished Bats are dead and have not the necessary spring to make a long hit. Air drying, however, leaves the natural resiliency in the wood while at the same time, removes the excess moisture that would cause the Bat to warp. After our Timber has been thoroughly Air dried, the first inspection throws out all sticks on which appear any knots, worm holes or blemishes of any kind, or in which the grain is not straight. These remaining sticks which seem perfect are then roughly turned down, to within a quarter of an inch of the actual size of the Bat when finished. These are again thoroughly inspected so that if any blemishes appear beneath the original surface, they can then be detected and the Bats thrown aside. It is only the timber which survives these rigid inspections that is allowed to go into the

SIMMONS SWATTER®.

The Bats are then hand turned from these selected sticks and put through six different polishing processes, commencing with coarse polishing mixtures and graduating down to a very fine grit, which produces the exceptional finish characteristic of the

SIMMONS SWATTER®.

After being branded, the Bats are given a final hand-friction polish, which hardens the outside of the Bat and makes a permanant, beautiful finish—impossible to be obtained in any other way. We do not use Varnish, as our experience has demonstrated that Varnish becomes sticky in warm weather and is easily soiled.

In order that our customers may receive this high-grade article and keep it on their shelves in perfect condition until sold, each **SIMMONS SWATTER®** is enclosed in an individual bat bag made of heavy canton flannel.

We have carefully prepared the assortment contained in our original case of 3 Dozen Bats and because of our many years of experience in having sold more Bats than any other distributer in the country, we do not hesitate to say that this assortment will sell readily, as it contains only those numbers which experience has proven to be good sellers.

The Model No. 50L is designed to meet the ideas of those players who like a small handle with the weight of the Bat at the end. This style is used by the free-hand hitters—those players who swing from the shoulder in striking at the ball.

The No. 50H, however, is made with a large handle to suit that class of players who choke the Bat—those, in other words, who hold the Bat from two to four inches below the handle proper.

Each of these assortments contain the models that are exact duplicates of the Bats now used by the leading Batsmen of the American and National Leagues, as well as those of the Minor Leagues.

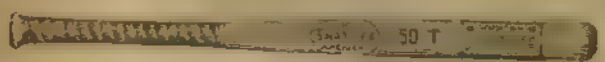
GUARANTEE

We fully guarantee the **SIMMONS SWATTER®** to be perfect in material and workmanship, and will gladly replace any Bat that shows any defect in material or workmanship. We will not replace Bats that are broken by being improperly held and struck against the grain. The Brand of the Bat must be held STRAIGHT UP or STRAIGHT DOWN while the Ball is struck, so that the impact comes on the side, not where the Bat is branded, nor on the side directly opposite the brand. No Bat can stand the strain of the impact if held the wrong way of the grain, hence there is positively no guarantee on a Bat broken with the grain.

Hand Turned Finest Quality Second Growth, Straight Grained, Selected White Ash; Perfect Balance; Assorted Lengths, 32 to 35 in.; Assorted Weights, 36 to 46 ozs.

Per Dozen

No. 50—**SIMMONS SWATTER®**; Natural Finish, Hand Polished; Not Tape Wrapped or Burnt.....$14.50



Per Dozen

No. 50T **SIMMONS SWATTER®**; Natural Finish, Hand Polished, Tape Wrapped but not Burnt.....$15.00

Per Dozen

No. 50B—**SIMMONS SWATTER®**; Full Burnt and Hand Polished; Not Tape Wrapped $16.00

Hand Turned Finest Quality Second Growth, Straight Grained Selected White Ash; Perfect Balance; SMALL HANDLES, Assorted Lengths, 32 to 35 in.; Assorted Weights 36 to 42 Ozs.

Per Dozen

No. 50L **SIMMONS SWATTER®**; Special Canary Finished Polished; Not Tape Wrapped.....$16.00

Hand Turned Finest Quality Second Growth, Straight Grained Selected White Ash; Perfect Balance; LARGE HANDLES; Assorted Lengths, 32 to 35 in.; Assorted Weights, 36 to 42 ozs.

Per Dozen

No. 50H **SIMMONS SWATTER®** Special Mottled Burnt Finish Hand Polished, Not Tape Wrapped.....$16.00

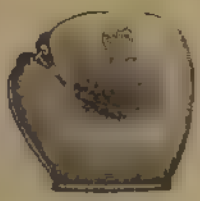
Cut Shows Individual Canton Flannel Bag Used on All

SIMMONS SWATTER® Bats.

All of Above Bats are Packed One Each in an Individual Canton Flannel Bag with Draw String Top. Three Dozen in a Crate; Weight per Crate about 105 lbs.

FIELDERS' MITTENS.

SIMMONS AMERICAN®.



GREEN CHROME TANNED CALF-SKIN Palm, BLACK Back and Lining, Good Quality Asbestos Felt Padding; Soft and Flexible Tan Welted Seam at Edge; Tan Roll Leather Bound; Strap and Buckle Fastening at Wrist.

Per Dozen

No. 3F37—LEAGUE PATTERN FULL SIZE $20.00

FINE QUALITY CHROME TANNED IMPORTED BLACK LEATHER; Black Welted Edge; Black Leather Roll Binding Padded with Best Asbestos Felt, Soft and Flexible. Full Tan Leather Lined. Strap and Buckle Fastening; Finger Divisions.

Per Dozen

No. 3L38—LEAGUE PATTERN; Full Size $16.00

Weight per Dozen about 8 lbs

One-twelfth Dozen in a Cardboard Box.

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

FIELDERS' GLOVES.

SIMMONS AMERICAN®

FINEST QUALITY DRAB HORSEHIDE. Lined with Four Piece Drab Leather Lining; Large Little Finger and Thumb; Full Welted Tan Leather Seams; Tan Leather Roll Binding; Best Asbestos Padding; Full Professional Model.

Per Dozen

No. 8GX1—SIMMONS® PROFESSIONAL $50.00

PROFESSIONAL MODEL; LARGE SIZE; Soft and Flexible; Highest Quality Felt Padding, almost Indestructible Heavily Padded at Little Finger, Thumb and Heel, forming Deep Natural Pocket; Full Tan Leather Lined; Russet Leather Welted Seams and Roll Binding; Leather Lacing at Heel permits Player to Adjust Padding; Button Fastening at Wrist; A Very Popular Design and Absolutely Unequaled as to Quality and Construction

Per Dozen

No. 8G1—FINEST SELECTION VELVET FINISH DRAB HORSEHIDE $52.00

HIGH GRADE SMOKED BUCK Black Welted Seams, Black Leather Roll Binding; Lined with Four Piece Tan Leather Lining; Large Little Finger and Thumb; Very Light Padding in Heel; A Light Flexible Glove.

Per Dozen

No. 8G6 — PROFESSIONAL MODEL $32.00

PROFESSIONAL MODEL; LARGE SIZE, GENUINE ALASKA BUCK, Best Quality Felt Padding, almost Indestructible; Full Black Leather Lined, Black Leather Welted Seams and Roll Binding; Large Little Finger and Thumb; Button Fastening at Wrist

Per Dozen

No. 8G1—Padding at Center of Palm, Cut away and so Distributed at Edges as to form Deep Natural Pocket $15.50

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

FIELDERS' GLOVES.

SIMMONS AMERICAN®.

PROFESSIONAL; LARGE SIZE; SELECTED TAN KIP LEATHER; Padded Heavily, with Best Quality Felt, at Little Finger, Thumb and Heel, forming a Deep Natural Pocket; Black Welt and Black Roll Leather Binding; Large Little Finger and Thumb; Button Fastening at Wrist.

Per Dozen

No. 8G5L—FULL TAN LEATHER LINED $48.00

PROFESSIONAL; LARGE SIZE FINE QUALITY BLACK HORSEHIDE; Large Little Finger and Thumb; Liberally Padded with Best Quality Felt; Deep Ball Pocket; Tan Colored Welted Seams and Roll Binding

Per Dozen

No. 8G8—FULL FELT LINED $38.00

PROFESSIONAL INFIELDERS' PATTERN; DRAB COLOR, VELVET FINISH, TREMORE GENUINE HORSEHIDE, Lightly Padded with Best Quality Felt; Full Olive Green Leather Lined Green Leather Welt and Roll Binding; Very Soft and Flexible Button Fastening at Wrist

Per Dozen

No. 8G32—PROFESSIONAL PATTERN; LARGE SIZE... $30.00

FINEST QUALITY BLACK ARABIAN HORSEHIDE; Web Finger; Lined Leather Four Piece Linton White Welted Thumb and White Leather Roll Binding; Large Size, Felt Padding

Per Dozen

No. 8WF1d—WEB FINGERED $36.00

FINEST QUALITY PEARL CALF-SKIN; FULL LEATHER LINED; Best Quality Felt Padding; Tan Roll Binding; Tan Welted Seams, Button Fastening at Wrist; A Popular Glove among Semi-Professional Players.

Per Dozen

No. 8G23—PROFESSIONAL PATTERN $33.00

BLACK ARABIAN HORSEHIDE Soft and Flexible; Good Grade Felt Padding; Heavily Padded at Little Finger, Thumb and Heel, forming Deep Natural Pocket; Full Tan Leather Lined; Tan Leather Welted Seams and Roll Binding; Button Fastening at Wrist.

Per Dozen

No. 8G25—PROFESSIONAL PATTERN $33.00

OLIVE GREEN CHROME TANNED CAPE; Good Grade Felt Padding, Heavily Padded at Little Finger, Thumb and Heel forming Deep Natural Pocket, Full Olive Leather Lined Tan Leather Welted Seams and Roll Binding; Large Little Finger and Thumb; Button Fastening at Wrist.

Per Dozen

No. 8G26—PROFESSIONAL MODEL; LARGE SIZE $28.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND always shipped unless otherwise specified.

FIELDERS' GLOVES.

SIMMONS AMERICAN®.

FINE QUALITY DRAB HORSEHIDE; Velvet Finish; Best Grade Felt Padding; Heavily Padded at Little Finger, Thumb and Heel, Extending to Natural Pocket; Full Leather Lined; Tan Welted Seams, Tan Leather Edge Binding, Large Lace Fastening and Thumb Button Fastening at Wrist.

Per Dozen
No. SG175—PROFESSIONAL MODEL $20.00

GOOD QUALITY BLACK IMPORTED GOATSKIN; Felt Padding; Heavily Padded at Little Finger, Thumb and Heel, Extending Deep Natural Pocket; Full Leather Lined; Green Welted Seams; Leather Binding; Good Felt Padding at Little Finger and Thumb; Button Fastening at Wrist.

Per Dozen
No. SG24—PROFESSIONAL MODEL, LARGE SIZE. $28.00

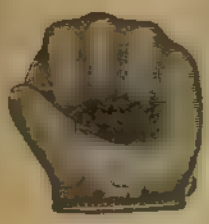
FINE QUALITY HEAVY NEW ZEALAND BUCKSKIN FINISH LEATHER CHROME TANNED Face and Back Tan Leather Lined; Tan Leather Welt Binding and Welted Seams; Good Quality Felt Padding; Deep Natural Pocket; Button Fastening at Wrist.

Per Dozen
No. SG27—LEAGUE MODEL, LARGE SIZE $36.00

FINE QUALITY HEAVY TAN SUPER CHROME TANNED Leather, Face, Tan Leather Lined; White Leather Binding and Welted Seams, Good Quality Felt Padding; Deep Natural Pocket, Button Fastening at Wrist.

Per Dozen
No. SG29—LEAGUE MODEL, LARGE SIZE $28.00

Weight per Dozen about 12 lbs



FINE QUALITY NAPA TAN LEATHER Full Leather Lined Web Fingers; Felt Padding, Black Leather Roll Binding.

Per Dozen
No. SW115—WEB FINGERED $24.00

Per Dozen
No. SG32 GOOD QUALITY TAN LEATHER; Face Tan Leather Lined Welted for Leather Binding; Welted Seams; Good Quality Felt Padding, Deep Natural Pocket $19.50

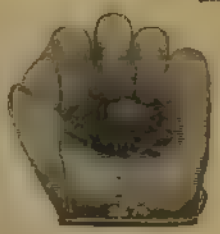
Per Dozen
No. SG33—MEN'S NEW LEAGUE PATTERN; SPECIAL HEAVY BLACK LEATHER; Tan Leather Binding; Full Leather Lined; Extra Welted Seams With Tan Improved Felt Heel, Patent Inner Pocket, Strong Button Fastening at Wrist; Good Quality Felt Padding $19.50

Weight per Dozen about 10 lbs
One-twelfth Dozen in a Cardboard Box

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND [illegible]

FIELDERS' GLOVES.

SIMMONS AMERICAN®.



GOOD QUALITY TAN LEATHER; Face and Back Tan Leather Lined; Green Welted Seams and Black Binding; Good Quality Felt Padding; Deep Natural Pocket; Soft and Flexible. An excellent Glove.

Per Dozen
No. SG74—EXTRA LARGE LEAGUE MODEL $17.00

FINE QUALITY CHROME TANNED SMOOTH CALIFORNIA GOATSKIN; Face and Back; Felt Padding; Tan Leather Lined; Velvet Welted Seams; Deep Natural Pocket; Leather Binding; Button Fastening at Wrist.

Per Dozen
No. SG74—MEN'S PROFESSIONAL PATTERN $16.00

Weight per Dozen about 9 lbs

GOOD QUALITY BLACK LEATHER; Olive Leather Lined; Green Welted Seams; Medium Deep Natural Pocket; Good Quality Felt Padding; Strong Button Fastening at Wrist.

Per Dozen
No. SG75 — INTERSCHOLASTIC MODEL $16.00

SELECTED BLACK CHROME TANNED CALIFORNIA GOATSKIN; Good Quality Felt Padding; Tan Leather Lined; Tan Leather Welted Seams; Tan Leather Binding; Button Fastening at Wrist. A Carefully Made Well fitting Glove.

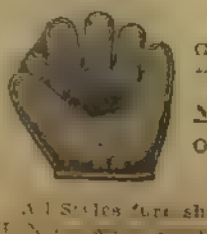
Per Dozen
No. SG76—REGULATION $12.00
Weight per Dozen about 7 lbs

HEAVY WHITE SHEEPSKIN CHROME TANNED Face and Back Palm Leather Lined; Green Leather Welted Seams, Green Binding; Good Quality Felt Padding; Deep Natural Pocket; Large Lace Fastening and Thumb Button Fastening at Wrist.

Per Dozen
No. SG47—AMATEUR $12.00
Weight per Dozen about 7 lbs

INTERSCHOLASTIC PATTERN; Heavy Leather Face and Back; Palm Leather Lined; Good Felt Padding; Button Fastening at Wrist.

Per Dozen
No. SG34 CHROME COLORED LEATHER $9.00
No. SG34½ TAN COLORED LEATHER 9.00
Weight per Dozen about 6 lbs
One-twelfth Dozen in a Cardboard Box.



ASSORTED BLACK, TAN AND GREEN SHEEPSKIN Face; Leather Lined, Button Fastening at Wrist.

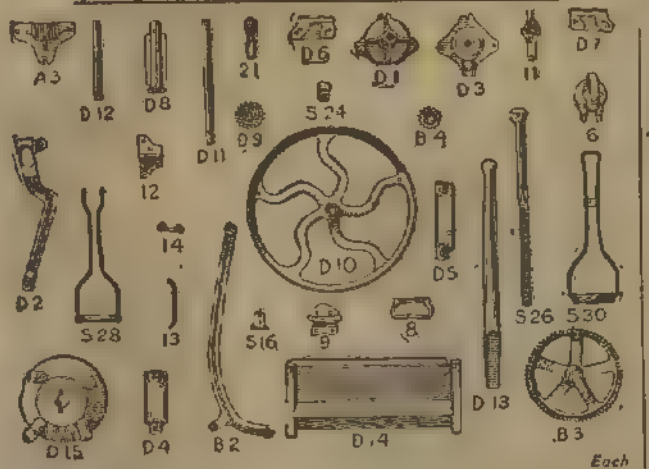
Per Dozen
No. SG30—BOYS' SIZE $4.50

One Dozen Assorted Colors in a Cardboard Box. Weight per Dozen about 4 lbs.

All Styles furnished for RIGHT or LEFT HAND. LEFT HAND [illegible]

EXTRA PARTS FOR WASHERS.

‡FOR SIMMONS RUN EASY" WASHER No. 932

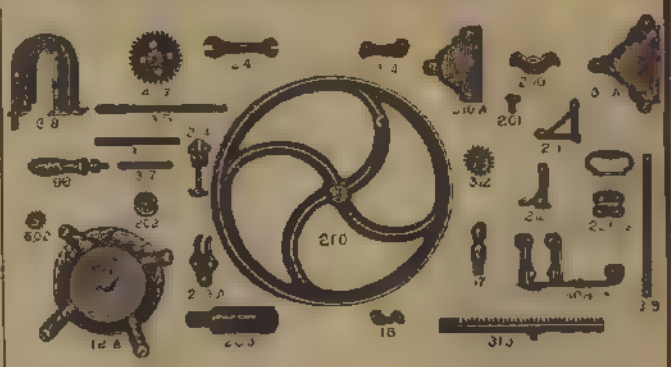


	Each
‡No. A3—Lever Support; Weight each about 33 oz.	$0.40
‡No. B2—Connecting Rod; Weight each about 13 oz.	.80
‡No. B3—Large Gear with Shaft; Weight each about 4½ lbs.	.80
‡No. B4—Small Gear; Weight each about 12 oz.	.24
‡No. D1—Gear Cover; Weight each about 36 oz.	.40
‡No. D2—Lever; Weight each about 33 oz.	.80
‡No. D3—Lid Flange; Weight each about 29 oz.	.40
‡No. D4—Bearing for Large Gear; Weight each about 15 oz.	.40
‡No. D5—Bearing for Small Gear; Weight each about 22 oz.	.40
‡No. D6—Support for bottom board (right); Weight about 15 oz.	.24
‡No. D7—Support for bottom board (left); Weight about 13 oz.	.24
‡No. D8—Casher Post; Weight each about 21 oz.	.40
‡No. D9—Gear on Dasher Shaft; Weight each about 13 oz.	.24
‡No. D10—Fly Wheel; Weight each about 12¾ lbs.	1.15
‡No. D11—Horizontal Shaft for Fly Wheel; Weight about 25 oz.	.40
‡No. D12—Dasher Shaft; Weight each about 16 oz.	.24
‡No. D13—Wood Handle; Weight each about 12 oz.	.32
‡No. D14—Wood Wringer Box; Weight each about 47 oz.	.80
‡No. D15—Dasher; Weight each about 35 oz.	.80
‡No. S16—Bracket on Lid; Weight each about 3 oz.	.16
‡No. S24—Tooth Rack Guide; Weight each about 5 oz.	.16
‡No. S26—Tooth Rack; Weight each about 28 oz.	.64
‡No. S28—Foot Stirrup; Weight each about 22 oz.	.40
‡No. 6—Hand Rope; Weight each about 7 oz.	.24
‡No. 9—Tub Handle; Weight each about 16 oz.	.16
‡No. 8—Side Handle; Weight each about 5 oz.	.16
‡No. 8—Side Handle Plate; Weight each about 7 oz.	.16
‡No. 11—Top Lock Catch; Weight each about 9 oz.	.16
‡No. 12—Lid Hinge; Weight each about 6 oz.	.16
‡No. 13—Brace for Wringer Box; Weight each about 2 oz.	.16
‡No. 14—Stay; Weight each about 1 oz.	.16
‡No. 21—Peg for Dropping Tub; Weight each about 2 oz.	.16

Packed Loose.

EXTRA PARTS FOR WASHERS.

FOR WINNER ROTARY WASHER NO. 19W.

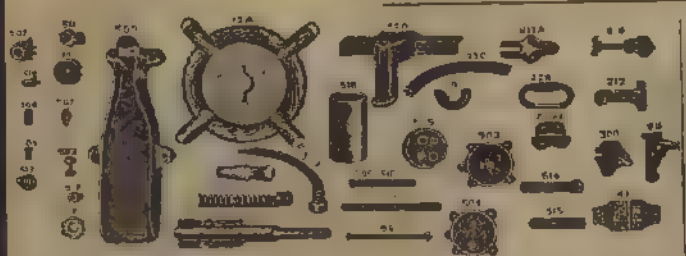


	Each
No. 24—Wrench; Weight each about 5 oz.	$0.20
No. 202—Paddle Collar; Weight each about 3 oz.	.10
No. 203—Paddle; Weight each about 25 oz.	.48
No. 210—Wheel; Weight each about 12 lbs.	1.90
No. 211—Large Wringer Bracket; Weight abt. 10 oz.	.58
No. 212—Small Wringer Bracket; Weight about 7 oz.	.48
No. 2134—Lock—Upper Half; Weight about 6 oz.	.20
No. 214—Lock—Lower Half; Weight about 5 oz.	.48
No. 228—Tub Handle; Weight each about 4 oz.	.20
No. 228½—Handle Plate; Weight each about 3 oz.	.20
No. 303—Gear Stand; Weight each about 2½ lbs.	1.56
No. 310A—Upper Housing; Weight about 24 oz.	.95
No. 311A—Lower Housing; Weight about 3½ lbs.	1.90
No. 312—Housing Pinion; Weight about 12 oz.	.95
No. 313—Rack Bar; Weight each about 16 oz.	1.45
No. 314—Arm; Weight each about 7 oz.	.76
No. 457—Large Gear; Weight each about 18 oz.	1.45
No. 502—Small Pinion; Weight each about 3 oz.	.48
No. 18—Drain Spout; Weight each about 4 oz.	.19
No. 200—Thumb Nut; Weight each about 4 oz.	.19
No. 201—Paddle Screw; Weight each about 1 oz.	.19
No. 315—Fly Wheel Shaft; Weight each about 16 oz.	1.15
No. 310—Dasher Shaft; Weight each about 12 oz.	1.15
No. 317—Gear Shaft; Weight each about 8 oz.	.76
No. 318—Gear Cover; Weight each about 5 oz.	.67
No. 310—Connecting Rod; Weight each about 3 oz.	.76
No. 124—Dasher; Weight each about 32 oz.	.57
No. 17—Drain Plug; Weight each about 1 oz.	.19
No. 90—Handle and Bolt; Weight each about 6 oz.	.38

Packed Loose.

EXTRA PARTS FOR WASHERS.

FOR WATER MOTOR WASHER NO. 10 ROYAL.



	Each
No. 503—Single Cylinder Head; Weight about 13 oz.	$1.90
No. 504—Double Cylinder Head; Weight about 13 oz.	1.90
No. 505—Follower Head; Weight each about 12 oz.	2.40
No. 506—Plunger Rod; Weight each about 4 oz.	.48
No. 507—Inlet Valve; Weight each about 2 oz.	.48
No. 508—Exhaust Valve; Weight each about 2 oz.	.48
No. 509—Follower Tubes; Weight each about 3 oz.	.38
No. 510—Follower Tubes; Weight each about 3 oz.	.38
No. 511—Packing Nut; Weight each about 3 oz.	.58
No. 514—Inlet Hose End; Weight each about 6 oz.	.96
No. 515—Exhaust Hose End; Weight about 5 oz.	.58
No. 517—Valve Bushing; Weight each about 1 oz.	.48
No. 518—Cylinder; Weight each about 18 oz.	1.90
No. 521—Lock Nut; Weight each about 2 oz.	$0.48
No. 513—Valve Spring; Weight each about 1 oz.	.10
No. 500—Motor Stand; Weight each about 5 lbs.	1.90
No. 501—Rack Bar; Weight each about 14 oz.	.48
No. 502—Pinion and Pin; Weight each about 4 oz.	.48
No. 520—Guard; Weight each about 23 oz.	.96
No. 203—Paddle and Shaft; Weight each about 27 oz.	.05
No. 201—Paddle Screw; Weight each about 1 oz.	.20
No. 202—Paddle Collar; Weight each about 4 oz.	.20
No. 228—Tub Handle; Weight each about 4 oz.	.30
No. 228½—Handle Plate; Weight each about 4 oz.	.30
No. 300—Lid Rest; Weight each about 8 oz.	.36
No. 211—Large Wringer Bracket; Weight abt. 10 oz.	.48
No. 212—Small Wringer Bracket; Weight about 7 oz.	.48
No. 2134—Side Lock; Weight each about 6 oz.	.30
No. 214—Upper Lock; Weight each about 5 oz.	.48
No. 41—Lid Hinge; Weight each about 5 oz.	.20
No. 18—Drain Spout; Weight each about 5 oz.	.20
No. 523—Stand and Motor Bolt; Weight about 2 oz.	.20
No. 512—Roller and Pin; Weight each about 3 oz.	.58
No. 124—Pin Wheel; Weight each about 32 oz.	.58
No. 17—Drain Plug; Weight each about 2 oz.	.20
No. 529—Intake Hose and Coupling; Weight 17 oz.	1.45
No. 530—Exhaust Hose; Weight each about 20 oz.	.96

Packed Loose.

EACH PART MUST BE ORDERED BY NUMBER AND NAME, ALSO GIVE NAME AND NUMBER OF MACHINE.

‡ *Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.*

EXTRA PARTS FOR WASHERS.

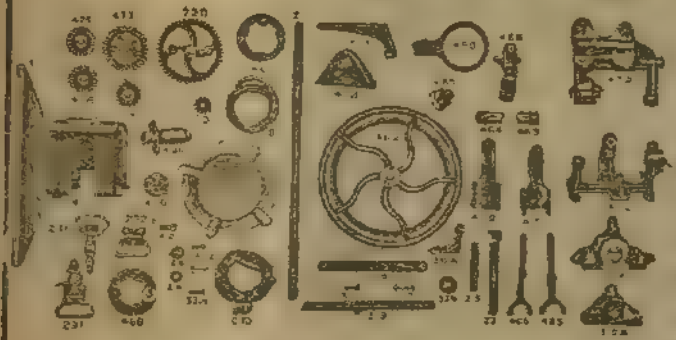
FOR PRIDE WASHERS NO. 21.

	Each
No. 117—Agitator Shaft; Weight each about 1 lb.	$0.95
No. 119—Center Post; Weight each about 2 lbs.	.95
No. 115—Paddle; Weight each about 1 lb. 13 oz.	.57
No. 116—Bottom Plate; Weight each about 4 lbs. 13 oz.	1.45
No. 110—Stand; Weight each about 6 lbs.	1.90
No. 110A—Stand Plate; Weight each about 1 lb 1 oz.	.48
No. 115—Lock Plate; Weight each about 8 oz.	.48
No. 953—Handle Bracket; Weight each about 3 oz.	.48
No. 120—Leg Brace; Weight each about 2 lbs. 3 oz.	.95
No. 952—Spring Catch; Weight each about 7 oz.	.38
No. 401—Spring Plate; Weight each about 13 oz.	.67
No. 360—Lid Rest; Weight each about 8 oz.	.20
No. 228—Handle; Weight each about 4 oz.	.20
No. 228A—Handle Plate; Weight each about 4 oz.	.20
No. 40—Tub Spring; Weight each about 7 oz.	.40
No. 9—Lock; Weight each about 7 oz.	.48
No. 12—Post Shaft; Weight each about 1 lb. 9 oz.	.95
No. 18—Spout; Weight each about 5 oz.	.19
No. 81—Ball Bearing; Weight each about 3 oz.	.95
No. 17—Plug; Weight each about 2 oz.	.19
No. 90—Tub Handle and Bolt; Weight each about 6 oz.	.38
No. 122—Agitator; Weight each about 4¾ lbs.	1.90

Packed Loose.

EXTRA PARTS FOR WASHERS AND WRINGERS.

FOR NO. S. D. C. AND S. A. C. ELECTRIC STAR WASHERS.

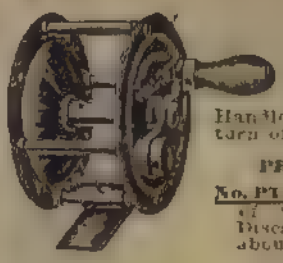


	Each
No. 212A—Inside Brackets; Weight each about 9 oz.	$0.58
No. 480—New Style Paddle; Weight each about 26 oz.	1.45
No. 220—Main Gear Wheel; Weight each about 23 oz.	2.40
No. 312—Housing Pinion; Weight each about 14 oz.	1.45
No. 310A—Upper Housing; Weight each about 24 oz.	1.45
No. 311A—Lower Housing; Weight each about 55 oz.	2.40
No. 462—Main Balance and Drive Wheel; Weight each about 10 lbs.	2.90
No. 463—Eccentric Clutch; Weight each about 7 oz.	1.90
No. 464—Wringer Reverse Clutch; Weight each about 9 oz.	1.90
No. 466—Small Bracket for Throw Out Lever; Weight each about 18 oz.	1.75
No. 467—Eccentric; Weight each about 21 oz.	2.90
No. 468—Eccentric Plate; Weight each about 11 oz.	1.15
No. 469—Eccentric Strap; Weight each about 14 oz.	1.90
No. 470—L. Wringer Bracket; Weight each about 25 oz.	[illegible]
No. 471—R. Wringer Bracket; Weight each about 21 oz.	1.45
No. 472—Main Gearing Bracket; Weight each about 4½ lbs.	3.80
No. 473—Main Bracket; Weight each about 7⅛ lbs.	3.80
No. 474—Special Lid Hinges; Weight each about 24 oz.	1.45
No. 475—Small Bevel Wringer Gear, Left; Weight each about 16 oz.	1.75
No. 476—Small Bevel Wringer Gear, Right; Weight each about 16 oz.	1.75
No. 477—Large Bevel Gear; Weight each about 23 oz.	2.90
No. 478—Main Gear Guard; Weight each about 20 oz.	1.45
No. 491—Wringer Gear Guard; Weight each about 6 lbs.	$2.90
No. 313—Rack Bar; Weight each about 19 oz.	1.55
No. 465R—Wringer, Reverse Lever; Weight each about 9 oz.	.95
No. 465E—Throw Out Eccentric Lever; Weight each about 5 oz.	.95
No. Z1—Main Driving Shaft; Weight each about 38 oz.	2.90
No. Z2—Paddle Shaft and Square; Weight each about 25 oz.	1.45
No. Z3—Balance Wheel Shaft; Weight each about 9 oz.	.57
No. Z4—Collar for Main Shaft; Weight each about 3 oz.	1.14
No. Z5—Clutch Pin; Weight each about ¼ lb.	.30
No. Z6—Balance Wheel Washer; Weight each about ¼ oz.	.30
No. Z6½—Spring Cotter Pin for Balance Wheel; Weight each about ½ oz.	.26
No. P10—Hinge Pin and Cotter; Weight each about ⅜ oz.	.20
No. X2—¾ Inch Housing Cap Screws; Weight each about 1 oz.	.30
No. X2½—1 Inch Housing Cap Screws; Weight each about 1 oz.	.30
No. 33¼—Raw Hide Pinion Plate; Weight each about ½	.48
No. 33½—Raw Hide Pinion Plate Screws; Weight each about ¾ oz.	.20
No. 231—Lower Lock and Handle; Weight each about 6 oz.	.57
No. 231½—Upper Lock and Lid Lift; Weight each about 4 oz.	.48
No. 232—Tub Handle and Plate; Weight each about 4 oz.	.38
No. 318—Connecting Rod for Rack Bar; Weight each about 11 oz.	.95
No. 430—Drain Cock; Weight each about 6 oz.	1.45
No. 33—Cut Raw Hide Drive Pinion; Weight each about 1 oz.	1.90
No. B6—Motor Belt, 6 feet, Split; Weight each about 4 oz.	1.80
No. 1—Motor Stand; Weight each about 20 oz.	.20
No. 12B—New Style Pin Wheel; Weight each about 33 oz.	.95
No. C 10—Motor Connecting Cord, With Sockets; Length 10 feet; Weight each about 7 oz.	2.40
No. S 60—Switch; Weight each about 4 oz.	1.15

Packed Loose.

EACH PART MUST BE ORDERED BY NUMBER AND NAME. ALSO GIVE NAME AND NUMBER OF MACHINE.

REELS.



SINGLE ACTION.

A Light Bass or Trout Reel; Nickel Plated; Bushed Bearings; Screw Oil Caps; Back Sliding Click; Ivory Balance Handle; quickly taken apart by a turn of Eccentric Screw on Rear Disc.

PREMIER, QUICK-A-PART.

No. PT60—60 Yards Capacity; Width of Spool 1¼ in.; Diameter of Discs 2¼ in.; Weight per dozen about 4 lbs.....Per Dozen, $24.00

‡THE WEEK TROUT REEL

German Silver, Single Action Back Sliding Click, Safety Bands, Ivory Handle, Small and Light enough to balance with the Light Trout Rod.

Per Dozen

‡No. W44—60 Yards Capacity; Diameter of Plates 2¼ in.; Weight each about 11 ozs.....$192.00

‡No. W44J—60 Yards Capacity; Diameter of Plates 2¼ in.; Jeweled; Weight each about 11 ozs.....$240.00

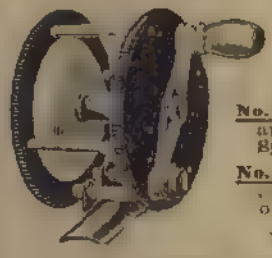
Round Disc Pattern, Screwed; Hard Rubber; Nickel Plated; With Bushed Bearings; With Click; Black Wood Handles.

Per Dozen

No. 440—40 Yards Capacity; Diameter of Plates, 2 in.; Width of Spoon 1 in.....$12.00

No. 460—60 Yards Capacity. Diameter of Plates 2¼ in.; Width of Spool 1 in.....13.20

Weight per Dozen about 4 lbs



Black Hard Rubber, Round Discs, Extra Fine Quality; White Bone Balance Handle, Screwed; Back Sliding Click; Bushed Bearings

Per Dozen

No. 840—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.....$12.20

No. 860—60 Yards Capacity; Diameter of Plates 2¼ in.; Width of Spool 1¼ in.....13.00

Weight per Dozen about 4 lbs.

One-twelfth Dozen in a Cardboard Box

Raised Pillars, Riveted; Solid Discs, Black Wood Handle; Width of Spool 1 in.

BRASS POLISHED.

Nos.	125	140	160
Capacity, yards	25	40	60
Diam. of Plates, in.	1¾	2	2¼
Per dozen	$2.00	2.30	2.80

BRASS, POLISHED; WITH CLICK.

Nos.	225	240	260
Capacity, yards	25	40	60
Diam. of Plates, in.	1¾	2	2¼
Per dozen	$2.30	2.80	3.00

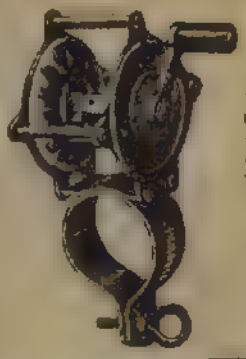
BRASS, NICKEL PLATED; WITH CLICK.

Nos.	325	340	360
Capacity, yards	25	40	60
Diameter of Plates, inches	1¾	2	2¼
Per dozen	$2.70	3.00	3.50

One-half Dozen in a Cardboard Box;

Weight per Dozen about 4 lbs.

REELS.



SINGLE ACTION.

Raised Pillars, Riveted; With Ring Clamp, for attaching to Rods not having Reel Seats; Black Wood Handles

No. 140½—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.; Brass Polished.....Per Dozen, $4.00

One-half Dozen in a Cardboard Box; Weight per Dozen about 4 lbs.

Raised Pillars, Riveted; Brass, Polished; Perforated Discs; Black Wood Handles.

Per Dozen

No. 040—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.....$2.00

No. 040C—40 Yards Capacity; Diameter of Plates 2 in.; Width of Spool 1 in.; WITH CLICK..... 2.00

One Dozen in a Cardboard Box; Weight per Dozen about 4 lbs.

MEISSELBACH.

Frame and Reel Seat Stamped out of One Piece of Brass; Removable Spool; Steel Click.

NICKEL PLATED.

Nos.	25	26
Capacity, yards	40	60
Diameter Plates, inches	1¾	2¼
Width Spool, inches	⅝	⅝
Weight per doz. about, lbs.	2¼	2¼
Per doz.	$16.00	19.00

No. 260—BLACK FINISH; 60 YARDS Capacity; Diameter of Plates 2¼ in.; Width of Spool ⅝ in.; Weight per dozen about 2¼ lbs.....Per Dozen, $19.00

MEISSELBACH.

Brass, Nickel Plated; Ball Bearing Detachable Spool; New Style Sliding Click

	(Trout)	(Bass)
Nos.	10	17
Capacity, yds.	40	100
Dia. Plates, in.	2¼	3
Width, Spool, in.	⅝	1
Wgt. doz., lbs.	3	6
Per dozen	$28.80	36.00

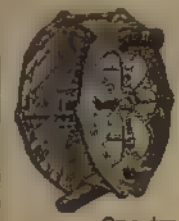
MEISSELBACH; FEATHERLIGHT.

Removable Spool and Back Sliding Steel Click, For Trout.

BRASS, NICKEL PLATED.

Nos.	270	280
Capacity, yards	60	80
Diameter Plates, in.	2¼	2¾
Width Spool, inches	¾	1
Weight per doz. lbs.	3	3¾
Per dozen	$28.80	28.80

No. 270B BLACK FINISH 80 Yards Capacity, Diameter of Plates 2¼ in.; Width of Spool 1 in.; Weight per dozen about 3¾ lbs.....Per Dozen, $28.80



MEISSELBACH; ALL RIGHT.

Brass, Nickel Plated; Removable Spool and Back Sliding Steel Click.

Per Dozen

No. 120—80 YARDS Capacity; Diameter of Plates 2¾ in.; Width of Spool 1 in., For Bass Fishing. Weight per dozen about 4½ lbs.....$28.80

One-twelfth Dozen in a Cardboard Box.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory.

REELS.

MEISSELBACH AUTOMATIC.

This Reel has an exclusive feature in a Safety Winding Spring; By turning the Milled Box the Spring may be wound up at any time whether Line is in or out, without danger of overwinding; also has a device that automatically controls speed of the recovering Line, thereby preventing the breaking of Tip. Line runs between two revolving Rollers which protect it from injury or wear. Spool has Friction Release which allows stripping under all conditions, and a Safety Release permitting Line to be pulled at any speed without danger to mechanism. Construction very simple. Finest Tempered Steel Spring, Nickel Steel Main Shaft, Working Parts Hard Brass and Tempered Steel, all running in German Silver Bearings. Entire Mechanism enclosed; Diameter of Spool 3 in.; Width ⅝ in.

Per Dozen

No. MA—100 YDS.; Aluminum; Weight per dozen about 9 lbs. $60.00

YAWMAN & ERBE AUTOMATIC

The Automatic Reel is self-acting. The Line is not wound by turning a Crank as in other Reels, but by a Spring, the action of which is controlled by a Lever. The Pressure of the Index Finger of the Hand Holding the Rod Releases the Brake and leaves the Reel free to revolve in either direction letting out the Line or rewinding it, according to the movements of the fish. With this Reel Slack Line is never possible, and the Consequence a Fish can never shake himself loose from the Hook.

It will Wind up the Line Faster than any other Reel in the world. It will Wind up the line slowly if Angler chooses.

It will prevent Tips, Lines and Snells from being broken by a Large Fish.

It enables the Angler and makes it desirable—to use Lighter Tackle.

No. 1A—90 FEET; Aluminum. Weight per dozen about 4 lbs. .. Per Dozen $78.00

One-twelfth Dozen in a Cardboard Box.

SPOOLERS.

FLEGEL REDIFOR

A VERY SIMPLE DEVICE THAT SPOOLS PERFECTLY.

It Carries no Gears. **The line running over the little Meisselbach Pulley turns it and makes an even traverse on the Spool Rod which contains an Endless Thread. Frame and Line Guide made of German Silver.**

Made in four sizes. When ordering, Give the Measurements of the Reel between the Side Plates, which will probably be 1⅜ in., 1⅝ in., 1⅞ in. or 2⅛ in.

Per Dozen

No. 0 For Spools 1⅜ IN WIDE $50.40
No. 1 For Spools 1⅝ IN WIDE 50.40
No. 2 For Spools 1⅞ IN WIDE 50.40
No. 3—**For Spools 1⅝ TO 1⅞ IN. WIDE** 50.40

One twelfth Dozen in a Cardboard Box. Weight per Dozen about 1¼ lbs.

Can be attached to any reel that has pillars in two minutes without cutting or marring.

LINE DRYING REELS.

The Latest and Only Practical Device for Drying Fish Lines, Attached Directly to the Rod; Insures Regular Distribution and Prolongs the Life of Line.

Made of Metal, Heavily Nickel Plated. Folds into a Compact Package. 3x7 in., and 1⅛ in. Thick.

Per Dozen

No. FRD—Weight per dozen about 6 lbs. $30.00

One twelfth Dozen in a Carton

TACKLE ASSORTMENTS.

By making frequent calls on our Mail Order Department you will be able to keep your Stock Complete and Up-to-Date and hold your trade at home.

Per Assortment

No. B—Dixie. Tackle Assortment $9.00

CONTAINS:

		Per Assortment
500	Cincinnati Fish Hooks, Flie Point, Ringed, 1c each	$5.00
300	Cincinnati Bass Hooks, Flie Point, Ringed, 1c each	3.00
600	Kirby Hooks, Flie Point, Ringed, 2 for 1c	2.50
100	Kirby Hooks, Flie Point, Ringed, 1c each	1.00
500	Limerick Hooks, Flie Point, Ringed, 2 for 1 cent	2.50
24	Furnished Lines (Flat Winder), 1 cent each	.24
12	Furnished Lines (Split Cane Winder), 5c each	.60
6	Furnished Lines (Cane Fringe Winder), 10c each	.60
12	Adjustable Floats, Extra, 3 Colors, 5 each	.60
6	Spoon Baits, Assorted Patterns and Sizes, 10 cents each	.60
72	Eureka Lines, 15 ft. Hanks, Small, 1c each	.72
24	Dark Green Eureka Lines, 12 ft. in a Hank, Medium, 2 cents each	.48
12	Dark Green Eureka Lines, 12 ft. in a Hank, Large, 3 cents each	.36
24	Variegated Braided Lines, 15 ft. Hanks, 5c each	1.20
4	Packages Split Shot Sinkers, Small Size, 2 dozen Shot in a Package, 5 cents each	.20
2	Packages Split Shot Sinkers, Medium Size, 1 dozen Shot in a Package, 5 cents each	.10
36	Ringed Sinkers, Assorted Sizes, 1 cent each	.36
36	Sproat Hooks, Assorted Sizes, 2 cents each	.72
6	"Silkalette" Braided Lines, 50 ft. on a Card, 10 cents each	.60
	Total Retail Value per Assortment	$21.98

Weight per Assortment about 6 lbs. Size of Box 17x [illegible]

Per Assortment

No. A—Antlers. Tackle Assortment $5.50

CONTAINS:

500	Kirby Fish Hooks, Flie Point, Ringed, Assorted Sizes, 5 for 1 cent	$2.50
300	Cincinnati Fish Hooks, Flie Point, Ringed, Assorted Sizes, 3 for 1 cent	3.00
200	Cincinnati Bass Hooks, Flie Point, Ringed, Assorted Sizes, 1 cent each	2.00
36	Sproat Hooks, Assorted Sizes, 2 cents each	.72
12	Adjustable Floats, Assorted Sizes, 5 cents each	.60
12	Ecru Eureka Lines, 15 ft. Hanks, Small, 1c each	.12
12	Dark Eureka Lines, 15 ft. Hanks, Medium, 2c each	.24
12	Green Eureka Lines, 20 ft. Hanks, Large, 3c each	.36
24	Ringed Sinkers, Assorted Sizes, 1 cent each	.24
12	Round Extra Strong Lines, 5 cents each	.60
18	Furnished Lines, 1 cent each	.18
6	Furnished Lines, 5 cents each	.30
6	Furnished Lines, 10 cents each	.60
2	Boxes Split Shot Sinkers (2 dozen in a Box) 5 cents each	.10
	Total Retail Value per Assortment	$ [illegible]

Weight per Assortment about 3½ lbs., Size of Box 10x [illegible] x 2 in.

Per Assortment

No. S—Superior. Tackle Assortment $3.00

CONTAINS:

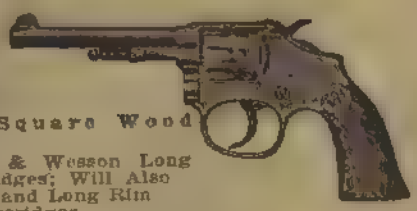
500	Kirby Fish Hooks, Flie Point, Ringed, Assorted Sizes, 3 for 1 cent	$2.50
300	Limerick Hooks, Flie Point, Ringed, Assorted Sizes, 3 for 1 cent	1.50
200	Carlisle Hooks, Flie Point, Ringed, Assorted Sizes, 1 cent each	2.00
12	Furnished Lines, 1 cent each	.12
9	Furnished Lines, 5 cents each	.45
12	Adjustable Floats, Assorted Sizes, 5 cents each	.60
24	Ringed Sinkers, Assorted Sizes, 1 cent each	.24
1	Box Split Shot Sinkers, Small, 5 cents each	.05
1	Box Split Shot Sinkers, Medium, 5 cents each	.05
12	Ecru Eureka Lines, 15 ft. in a Hank, Small, 1 cent each	.12
12	Ecru Eureka Lines, 15 ft. in a Hank, Medium, 2 cents each	.24
12	Ecru Eureka Lines, 12 ft. in a Hank, Large, 3 cents each	.36
	Total Retail Value per Assortment	$4.13

Weight per Assortment about 2 lbs. Size of Box 11x [illegible] x 2 in.

One Assortment in a Heavy Cardboard Compartment Box

REVOLVERS.

SMITH & WESSON.



MODEL 1902, PERFECTED.

Hand Ejector; Swing Out Cylinder; Solid Frame; Rebounding Lock; Double Action; Square Wood Handle.

Shoots 22 Smith & Wesson Long Rim Fire Cartridges; Will Also Take 22 Short and Long Rim Fire Cartridges.

22 CALIBER; 7 SHOTS

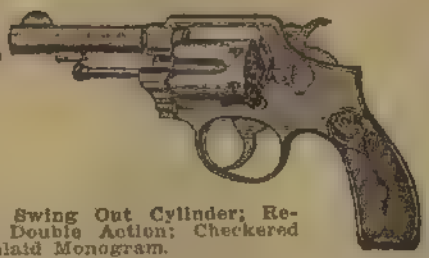
NICKEL PLATED

	Each
No. SH223—3 in. Barrel; Weight each 10¼ oz.	$26.00

BLUED.

No. SH0223—3 in. Barrel; Weight each 10¼ oz.	24.00

	Per Pair
Ivory Handles	$4.00
Pearl Handles	2.80



MODEL 1902, MILITARY AND POLICE

Hand Ejector; Swing Out Cylinder; Rebounding Lock; Double Action; Checkered Walnut Stock, Inlaid Monogram.

S. & W. 38 SPECIAL EXTRA LONG CALIBER.

Adapted to S. & W. 38 Special Extra Long and 38 Long Colt U. S. Service Cartridges.

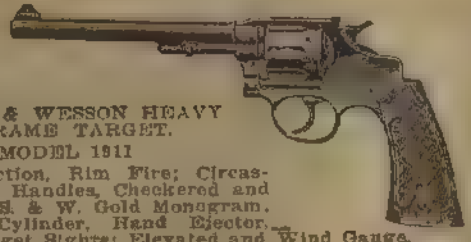
NICKEL PLATED

	Each
No. 384WMP—4 in. Barrel; Weight each 29 oz.	$32.00
No. 386WMP—6 in. Barrel; Weight each 31 oz.	32.00

BLUED

No. 0384WMP—4 in. Barrel; Weight each 29 oz.	30.00
No. 0386WMP—6 in. Barrel; Weight each 31 oz.	30.00

	Per Pair
Ivory Handles	$7.20
Pearl Handles	4.20



SMITH & WESSON HEAVY FRAME TARGET.

MODEL 1911

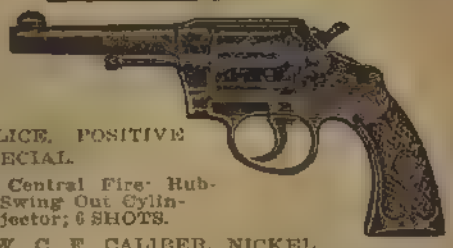
Double Action, Rim Fire; Circassian Walnut Handles, Checkered and Inlaid with S. & W. Gold Monogram. Swing-out Cylinder, Hand Ejector. S. & W. Target Sights; Elevated and Wind Gauge.

BLUED, 6 SHOTS. Shoots 22 Short, 22 Long and 22 Long Rifle R. F. Cartridges

No. SH0226T—Full Length 10½ in.. Length of Barrel 6 in.; Weight each 33 oz. ..... Each, $35.00

One in a Cardboard Box.

REVOLVERS.



COLT'S POLICE, POSITIVE SPECIAL.

Double Action; Central Fire; Rubber Handle, Swing Out Cylinder, Hand Ejector; 6 SHOTS.

32 W. C. F. CALIBER, NICKEL.

No. 324PS—Code Word, Ancestor; Length of Barrel, 4 in.; Weight 1 lb 9 oz. ..... Each, $24.00

32 W. C. F. CALIBER, BLUED.

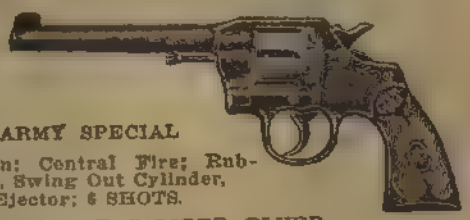
Nos.	0324PS	0326PS
Code Word	Anatomy	Anchor
Length of Barrel, inches	4	6
Weight	1 lb., 9 oz.	1 lb., 10 oz.
Each	$24.00	24.00

38 CALIBER, BLUED.

Chambered for 38 Short Colt, 38 Long Colt and 38 S. & W. Special.

Nos.	0384PS	0386PS
Code Word	Amend	Amputate
Length of Barrel, inches	4	6
Weight	1 lb., 7 oz.	1 lb. 8 oz.
Each	$24.00	24.00

Pearl Handles ..... Per Pair, $4.80



COLT'S ARMY SPECIAL

Double Action; Central Fire; Rubber Handle, Swing Out Cylinder, Hand Ejector; 6 SHOTS.

32 W. C. F. CALIBER, BLUED

Nos.	0324AS	0325AS	0326AS
Code Word	Agile	Candy	Agnail
Length of Barrel, in.	4	5	6
Weight	2 lbs., 2 oz.	2 lbs., 3 oz.	2 lbs. 4 oz.
Each	$26.00	26.00	26.00

38 CALIBER, BLUED.

Chambered for 38 Short Colt, 38 Long Colt and 38 S. & W. Special.

Nos.	0384AS	0385AS	0386AS
Code Word	Afraid	Apology	Age
Length of Barrel, inches	4	5	6
Weight	2 lbs.	2 lbs., 1 oz.	2 lbs., 2 oz.
Each	$26.00	26.00	26.00

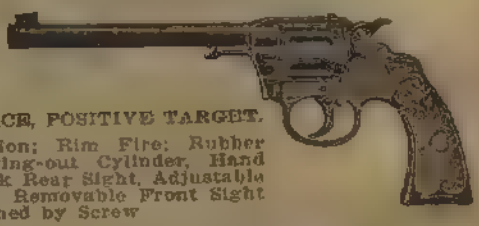
41 CALIBER, BLUED

Chambered for 41 Short Colt and 41 Long Colt Cartridges.

Nos.	0414AS	0415AS	0416AS
Code Word	Affidavit	Argot	Ark
Length of Barrel, in	4	5	6
Weight	1 lb., 15 oz	2 lbs	2 lbs 1 oz
Each	$26.00	26.00	26.00

Pearl Handles ..... Per Pair, $7.00

One in a Cardboard Box.



COLT'S POLICE, POSITIVE TARGET.

Double Action; Rim Fire; Rubber Handles; Swing-out Cylinder, Hand Ejector, Block Rear Sight, Adjustable for Windage, Removable Front Sight Blade, Fastened by Screw

22 W. R. F. CALIBER; BLUED, 6 SHOTS.

	Each
No. 0226PT—Full Length 10½ in.; Length of Barrel 6 in.	$26.00

22 SHORT OR LONG RIM FIRE CARTRIDGES, BLUED; 6 SHOTS

	Each
No. 0226PT—Full Length 10½ in. Length of Barrel 6 in.	$26.00

One in a Cardboard Box. Weight Each about 22 ounces

REVOLVERS.

COLT'S.

NEW POCKET. POSITIVE.
Double Action; Rubber Handle. Chambered for 32 Long and Short Colt Cartridges.

‡Can be furnished direct from Factory to use 32 S. & W. Short and Long Cartridges.

32 CALIBER; Central Fire; 6 SHOTS.

NICKEL PLATED

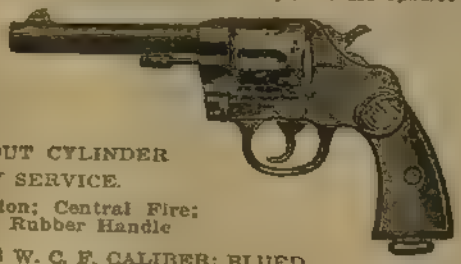
		Code Word.	Each
No. 3221/2NP	2½ in. Barrel; Wgt. 15 oz.	Ague.	$22.00
No. 3231/2NP	3½ in. Barrel; Wgt. 16 oz.	Aim.	22.00

BLUED.

No. 0322½NP	2½ in. Barrel; Wgt. 15 oz.	Agony.	22.00
No. 0323½NP	3½ in. Barrel; Wgt. 16 oz.	Aid.	22.00
No. 0326NP	6 in. Barrel; Wgt. 18 oz.	Air.	22.00

	Per Pair
Ivory Handles	$4.00
Pearl Handles	2.80

‡Engraving.....To Order, $5.00 and Upwards



SWING-OUT CYLINDER
NEW SERVICE.
Double Action; Central Fire; 6 SHOTS; Rubber Handle

38 W. C. F. CALIBER; BLUED.

Nos.	0384½NS	0385½NS	0387½NS
Code Word	Account	Accuse	Ace
Length Barrel, inches	4½	5½	7½
Weight	2 lbs., 1 oz.	2 lbs., 3 oz.	2 lbs., 6 oz.
Each	$28.00	28.00	28.00

44 W. C. F. CALIBER; BLUED.

No.	0445½NS
Code Word	Accent
Length Barrel, inches	5½
Weight	2 lbs. 3 oz.
Each	$28.00

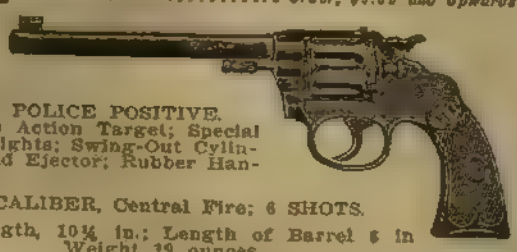
45 COLT CALIBER; BLUED.

Nos	0454½NS	0455½NS	0457½NS
Code Word	Abide	Abstract	Abundant
Length Barrel, inches	4½	5½	7½
Weight	2 lbs., 1 oz.	2 lbs., 3 oz.	2 lbs., 6 oz.
Each	$28.00	28.00	28.00

‡By shipping from factory, New Service can be furnished Chambered for 44 Russian Cartridges

	Per Pair
Ivory Handles	$12.00
Pearl Handles	

‡Engraving.....To Order, $5.00 and Upwards



NEW POLICE POSITIVE.
Double Action Target; Special Target Sights; Swing-Out Cylinder; Hand Ejector; Rubber Handle

32 CALIBER, Central Fire; 6 SHOTS.

Full Length, 10¼ in.; Length of Barrel 6 in. Weight 19 ounces.

Chambered for 32 Short and Long Colt Cartridges

BLUED.

		Code Word.	Each
No. 0326PT	For 32 Colt's Cartridges	Ambition.	$26.00
No. S 0326PT	For 32 New Police Cart.	Ambush.	26.00

No. S/0326PT is chambered for the New Police Cartridge. Will also take the 32 S. & W. Long and Short Inside Lubricant and the 32 S. & W. Long and Short with Self-Lubricating Bullets.

One in a Cardboard Box.

REVOLVERS.

COLT'S.

NEW POLICE POSITIVE.
Double Action; Rubber Handle; Swing-Out Cylinder; Hand Ejector
32 Caliber, Central Fire; 6 SHOTS.
Chambered for 32 Short and 32 Long Colt's Center Fire Cartridges.

NICKEL PLATED.

	Weight.	Code Word.	Each
No. 324P—4 in. Barrel	18 oz.	Allow	$24.00
No. S/324P—4 in. Barrel	18 oz.	Although	24.00

BLUED.

	Weight.	Code Word.	Each
No. 0322½P—2½ in. Barrel	16 oz.	Alive	$24.00
No. 0324P—4 in. Barrel	18 oz.	Alligator	24.00
No. S/0324P—4 in. Barrel	18 oz.	Altar	24.00
No. 0326P—6 in. Barrel	20 oz.	Almanac	24.00

Nos. S/324P and S/0324P are the same as adopted by New York City and other Police Departments. They are chambered for the Colt New Police (special) Cartridge, and will also take 32 S. & W. Short and Long Inside Lubricant and 32 S. & W. Short and Long with Self-Lubricating Bullets.

‡Can be furnished to Special Order from Factory Chambered for 32 S. & W. Center Fire Cartridges

38 CALIBER, Central Fire; 6 SHOTS.

BLUED.

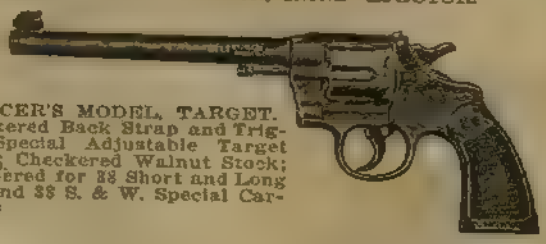
Chambered for 38 S. & W. and 38 Colt New Police Cartridges.

	Each
No. 0384P—4 in. Barrel; Weight 20 oz.	$24.00
No. 0386P—6 in. Barrel; Weight 21 oz.	24.00

	Per Pair
Ivory Handles	$7.50
Pearl Handles	4.80

‡Engraving. To Order, $5.00 and Upwards

SWING-OUT CYLINDER, HAND EJECTOR.



OFFICER'S MODEL, TARGET.
Checkered Back Strap and Trigger; Special Adjustable Target Sights; Checkered Walnut Stock; Chambered for 38 Short and Long Colt, and 38 S. & W. Special Cartridges

38 CALIBER, BLUED; 6 SHOTS.

	Code Word	Each
No. 0386/OMT—6 in. Barrel; Wgt. 2 lbs.	Beach	$32.00
No. 0387½/OMT—7½ in. Barrel; Weight 2 lbs. 3 oz.	Beauty	32.00

One in a Cardboard Box.

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

Our shipping facilities are unequaled.

We invite correspondence.

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

WOODEN MINNOWS.

No. CM61

KETCH-EM

Solid Red Cedar Body, Heavily Coated with Special Prepared Porcelain Enamel; Mounted with Nickel Plated Detachable Hooks, Head and Tail Spinners and Connections; Spinner Blades Revolve in Opposite Directions. Does away with the Necessity of using a Swivel; Ballasted in such a manner that Minnow will at all times ride with Perfect Balance in the Water and Present the Hooks at the Best Possible Angle for the Attack of the Fish.

THREE HOOKS. LENGTH OF MINNOW 2⅝ IN.

	Per Dozen
No. CM41—RAINBOW	$6.60
No. CM42—GREEN CRACKED BACK	6.00
No. CM43—RED	6.00

FIVE HOOKS; LENGTH OF MINNOW 3⅝ IN.

	Per Dozen
No. CM51—RAINBOW	$7.00
No. CM52—GREEN CRACKED BACK	7.00
No. CM53—RED	7.00

One-twelfth Dozen in a Wooden Box. One Dozen in a Cardboard Box; Weight per Dozen about 40 ozs.

Consists of Twelve Different Styles and Colors of Minnows for Bass, Pike, Pickerel and Muscallonge Fishing; Made of Selected Red Cedar Treated to Prevent Cracking and Swelling; Enameled with Several Coats of a Special Water-proof Enamel, Beautifully Blended; Glass Eyes, Countersunk to give natural effect; Best Imported Treble Hooks, Spinners, Hooks and Mountings are fully Nickel Plated to Prevent Rust; Hooks so hung as to meet any strike. Mounted on an Easel Back Cardboard Display Stand.

Per Assortment

No. 358—ASSORTMENT; Size of Stand 12½x20½ in. Weight per assortment about 2½ lbs. $7.70

One Assortment in a Cardboard Box; 12 Boxes in a Carton.

ROYAL ASSORTMENT.

Consists of 12 Minnows Assorted in Three Different Colors, Red Back with White Belly, Green Back with White Belly and all White; High Grade Porcelain Enamel used in Decorating; Mounted with Three Nickel Plated Treble Hooks that are hung to a Patented Device that makes them Instantly Detachable in case of Breakage; Has a Nickel Plated Spinner at Head, Tack Eyes; Length of Minnow 2½ in.

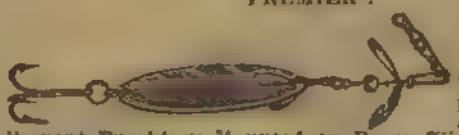
Per Assortment

No. RM—ASSORTMENT; Mounted on a Fancy Easel Back Display Card $2.40

One Assortment on a Card; Weight per Assortment about 1 lb.

PEARL MINNOWS.

PREMIER.



Best Quality Pearl Body, with German Silver Wire Extending Lengthwise around Body to Prevent Breaking; Mounted on Brass Wire, with Nickel Plated Head Spinner, and Brass Box Swivel; Good Quality Hollow Point Bronze Treble Hook Attached to Body by Steel Split Ring, which permits New Hook being attached when Desired.

No. PPM50—Length of Body 2⅞ in.; Weight per dozen about 16 ounces ..... Per Dozen, $10.80

One Dozen in a Cardboard Box.

PHANTOM MINNOWS.

No. PMW4.

"KATCH-ALL."

EXTRA STRONG, TWISTED STEEL WIRE LEADER, Life-Like Minnow Head, Body made of GENUINE PORPOISE HIDE; Wire Wound Hollow Point, Bronzed, Treble Hooks, Two Brass Box Swivels.

Nos.	PMW4	PMW5	PMW6	PMW7	PMW8
Length of Body, in.	3⅛	3½	3⅞	4⅛	4½
Weight per dozen about, ounces	32	40	48	52	56
Per dozen	$13.00	14.50	15.00	18.00	21.60

TWISTED GUT LEADER, Life Like Minnow Head Body made of FINE RIBBED SILK, Bright Treble Hooks, Brass Box Swivel.

Nos.	PM1	PM2	PM3	PM4
Length of Body, inches	2	2½	2¾	3⅛
Weight per dozen about, ozs.	4	4	4	5
Per dozen	$5.20	5.20	5.20	5.20

Nos.	PM5	PM6	PM7	PM8
Length of Body, inches	3½	3⅝	3¾	4
Weight per dozen about, ozs.	7	7¼	14	14
Per dozen	$5.20	6.00	7.00	8.00

One on a Card; One-half Dozen (1 Silver, 2 Blue, Brown) in a Cardboard Box.

BAITS.

MOONLIGHT FLOATING.

Selected Red Cedar Body; Length over all 4 in.; Coated with a Luminous Enamel and Equipped with Three Best Quality Treble Hooks that can be readily replaced when broken; Especially Designed for Night Fishing; Also very effective for Day Fishing, For Bass, Pickerel and Muscallonge, also Salt Water Fishing.

Expose to Light and Open Air just before Sunset when intending to use at Night, Can be Used Either for Casting or Trolling.

Per Dozen

No. MB1—Weight per Dozen about 1½ lbs. $6.00

One-twelfth Dozen in a Cardboard Box.

BASS BAITS.

HOWE'S VACUUM.

For Casting and Trolling by Daylight, Moonlight or Starlight; A New Surface Bait; Hooks attached by Swivels. Combines all Efficient Principles of Bait Construction: An Infallible Hooker; Made of Carefully Selected and Prepared Stock, Neatly Finished in a Special Horn Enamel, requiring Eight Coats, making it Hard, Durable and Waterproof; Accurately Weighted so as to be of Proper Balance; A Perfect Casting Bait; Metal Parts Brass, Nickel Plated, Best Quality Imported Treble Hooks.

Per Dozen

No. HV—White Enameled, Red Striping on Bottom, Three Treble Hooks; Swivel Mounted, Length of Body 2⅝ in. $10.80

One-twelfth Dozen in a Hinged Metal Box; Weight per Dozen about 3 lbs.

DECKER CASTING.

Wood Body, Heavily Enameled White Color; Aluminum Propellers. Head Revolves with Propellers, Equipped with Brass Box Swivel and Three Best Imported Treble Hooks. Good for Day or Night Bass Fishing. Floats on Surface of Water.

Per Dozen

No. DH—Length 3½ in. Weight per dozen about 2½ lbs. $5.00

One-twelfth Dozen in a Cardboard Box.

BUTTERFLY BAIT.

WATER WITCH BUTTERFLY. Hollow Rubber Body; Pure Para Rubber Wings, Striped with Red and Gold; Tied to Best Quality Bronzed New York Trout Hook, Size 4/0, Length 3 in., Spread of Wings 3 in.

No. F4/0 — Weight per Gross about 14 ozs. Per Gross $60.00

One in a Cardboard Box.

FROGS.

KENT CHAMPION FLOATER.

Made of Genuine Tennessee Red Cedar. Light and Buoyant. Containing a Natural Oil that preserves the Wood, and Prevents its Water-logging. Enamel Finish Green Color, with Rainbow Stripes and Dots, and White Belly; Spinners Revolve in Opposite Directions; Hooks mounted on Patented Device, and can be Readily Detached when Broken, or when Wanting to Change; Hooks and Spinners Nickel Plated.

Per Dozen

No. CF—Size 1⅝x2½ in. $30.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 6 oz.

FROGS.

HARRIS' FLOATING MEADOW FROGS.

SUGGESTION—To use the Frog Successfully make your cast, and as soon as the Frog strikes the water, immediately commence reeling in to give the Frog the appearance of life. When the Fish strikes, don't stop reeling, but keep the Frog coming. If the Fish stops the Frog, your reeling in will keep the line taut and the Fish will hook itself. If it does not stop the Frog the first strike the chances are it will strike again if you keep the Frog in motion.

Combination Cork and Rubber, Painted Natural Color; First Quality Aberdeen Hooks.

No. 102—Length 1¼ in.; Weight per dozen about 16 oz. Per Dozen $6.50

MINNOW GANGS.

Showing Method of Attaching Bait.

No. 1—ST. LAWRENCE Gang, Mounted on 10 in. Silk Gimp, Best Quality Hollow Point Bronzed Treble Hook; Adjustable Lip Hook; Treble Brass Box Swivel. Weight per dozen about ⅞ lbs..... Per Dozen, $4.00

One on a Card, One Card in a Cardboard Box, One-half Dozen in a Carton.

INSECT BAITS.

INIMITABLE INSECTS

The Nearest Approach to Nature ever attained.

Cut Shows No. IG Grasshoppers.

Per Dozen

No. IG —SMALL GAUZE WING GRASSHOPPER...$4.50

No. 1811F—SHAD FLY 4.00

No. 1STF—SMALL STONE FLY..... 4.50

One Dozen Sewed on a Card; One Card in a Cardboard Box. Weight per Dozen about 3 oz.

Our large MAIL ORDER business enables us to use up-to-date and improved methods that would not be possible for a smaller concern.

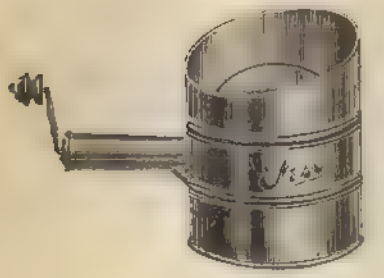
Our shipping facilities are unequaled.

We invite correspondence.

Whenever your MAIL ORDERS are not handled to your entire satisfaction, write us, or take it up with our traveling representative. This will save your time, which is valuable. He is authorized to act.

FLOUR SIFTERS

NESCO



Per Dozen

No. 10—Bright Tin Body, Tinned Wire Sieve, Rotary Handle Crank. $1 80

Weight Per Dozen 9 Pounds

One Dozen in a Box

HUNTER'S GENUINE

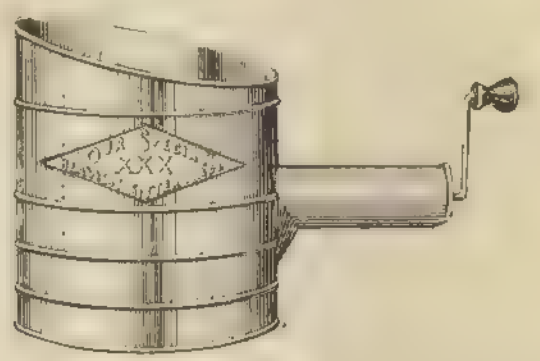
Per Dozen

Hunter's Genuine—Heavy Bright Tin Body, Tinned Wire Agitator and Screen, Rotary Handle Crank $2.00

Weight Per Dozen 12 Pounds

One Dozen in a Box

SPECIAL XXX



Per Dozen

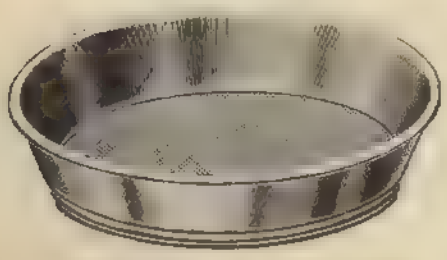
Special XXX—Heavy Selected Tin Body, Planished, Tinned Wire Agitator and Screen, Rotary Handle Crank, Wrapped in Tissue Paper. $4.50

Weight Per Dozen 15 Pounds

One Dozen in a Box

FLOUR SIEVES

METALLIC



Seamless Tin Rim, Iron Wire Bottom

No.	318
Size, Inches	12½x2¾
Mesh, No.	18
Weight Per Dozen, Lbs.	7
Per Dozen	$2.50

One Dozen in a Package

WOOD RIM

Wood Rim, Iron Wire Bottom

No.	18
Diameter, Inches	12
Mesh, No.	18
Weight Per Dozen, Lbs.	8
Per Dozen	$2.50

One Dozen in a Bundle

SPRING BALANCES.

ROYAL.

EXTRA HEAVY TINNED CAST Iron Case; Polished Brass Face; Figures and Lines stamped, Tinned Wrought Steel Hook and Ring.

Per Dozen

No. 581—CAPACITY 25 LBS. BY ½ LBS. Length of Case 5¾ in.; Length of Face 5¼ in.; Width of Face 1⅛ in.; Length over all 10½ in.; Weight per dozen about 6 lbs. $4.50

One-half Dozen in a Cardboard Box.

No. 584—CAPACITY 50 LBS. BY 1 LBS. Stamped Steel Case; Length of Face 8⅝ in.; Width of Face 2⅞ in.; Length over all 12¾ in.; Weight per dozen about 19 lbs. 9.00

No. 586—CAPACITY 80 LBS. BY 1 LBS. Cast Iron Case; Length of Face 10½ in.; Width of Face 2⅝ in.; Length over all 17 in.; Weight per dozen about 24 lbs. 26.00

One-quarter Dozen in a Cardboard Box.

No. 587—CAPACITY 100 LBS. BY 1 LBS. Cast Iron Case; Length of Face 13 in.; Width of Face 3⅛ in.; Length over all 19½ in.; Weight per dozen about 38 lbs. 42.00

One-twelfth Dozen in a Cardboard Box.

EXTRA.

Japanned Stamped Steel Case; Polished Brass Face; Figures and Lines Stamped; Tinned Wrought Steel Hook and Ring.

Per Dozen

No. 81—CAPACITY 25 LBS. BY ½ LBS. Length of Case 5¾ in.; Width of Face 1⅝ in.; Length over all 10½ in.; Weight per dozen about 4 lbs. $4.50

One-half Dozen in a Cardboard Box.

No. 84—CAPACITY 50 LBS. BY 1 LBS. Length of Face 7 in.; Width of Face 2 in.; Length over all 12½ in.; Weight per dozen about 17 lbs. 9.00

One-quarter Dozen in a Cardboard Box.

No. 87—CAPACITY 100 LBS. BY 1 LBS.; Length of Face 12⅜ in.; Width of Face 3 in.; Length over all 19 in.; Weight per dozen about 33 lbs. 44.00

One-twelfth Dozen in a Cardboard Box.

STANDARD.

Japanned Stamped Steel Case; Polished Brass Face; Figures and Lines Stamped; Tinned Wrought Steel Hook and Ring.

Per Dozen

No. 50—CAPACITY 25 LBS. BY ½ LBS.; Length of Face 4 in.; Width of Face 1⅜ in.; Length over all 8⅛ in.; Weight per dozen about 2¾ lbs. $1.50

One Dozen in a Cardboard Box.

No. 51—CAPACITY 50 LBS. BY 1 LBS.; Length of Face 5⅜ in.; Width of Face 1⅝ in.; Length over all 10¼ in.; Weight per dozen about 6½ lbs. 2.70

One-half Dozen in a Cardboard Box.

POUND.

Japanned Rolled Steel Case; Figures and Lines Stamped; Polished Brass Face; Tinned Steel Wire Hook and Ring.

Per Dozen

No. 70—CAPACITY 24 LBS. BY ½ LBS.; Length of Case 4⅝ in.; Diameter of Case ⅜ in.; Length over all 10 in.; Weight per dozen about 4 lbs. $4.50

One-half Dozen in a Cardboard Box.

No. 273—CAPACITY 50 LBS. BY 1 LBS. Length of Case 6 in.; Diameter of Case 1¼ in.; Length over all 13 in.; Weight per dozen about 7 lbs. 10.00

One-quarter Dozen in a Cardboard Box.

ICE SCALES.

GERMAN CRAB ICE SCALES.

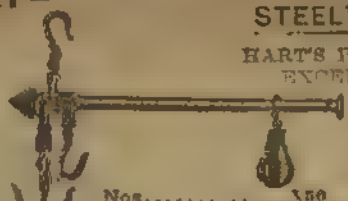
Polished Spring Steel Frame; Polished Brass Face; Figures and Lines Stamped; Polished Wrought Steel Hooks and Rings; Length of Frame 3¾ in.; Width of Frame 3½ in.; Length over all 10¾ in.

Per Dozen

No. 115K—CAPACITY 300 LBS. BY 5 LBS. $7.00

Packed Loose.

STEELYARDS.



HART'S PATTERN.

EXCELSIOR

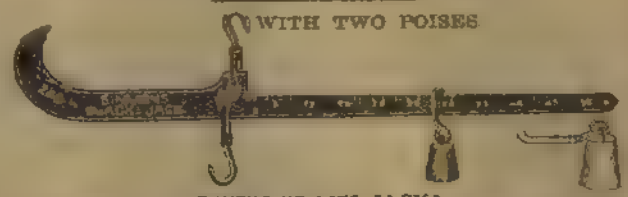
High Grade Tempered Steel; Heavy Polished Beam and Hooks; Cast Iron Case; Hardened Polish Enameled Rod

Nos.	X50	X100	X150
Capacity	100 lbs. x 1 oz.	200 lbs. x ½ oz.	300 lbs. x ½ oz.
Wgt. per doz. abt. lbs.	40	60	80
Per Dozen	$9.00	12.00	17.00

Nos.	X200	X250	X300
Capacity	200 x ½ lbs.	250 x ½ lbs.	300 x ½ lbs.
Wgt. per doz. abt. lbs.	90	100	125
Per dozen	$15.00	19.00	25.00

One-half Dozen in a Case.

SCALE BEAMS.



WITH TWO POISES

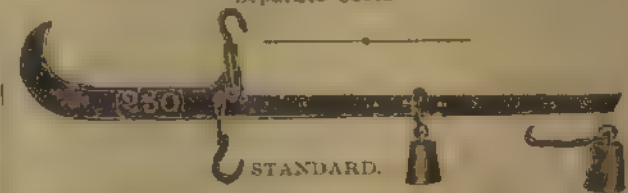
SIMMONS BLACK JACK.

FORGED FROM HIGH GRADE SELECTED STEEL. Fitted with Hardened Steel Pivots and Knife Bearings, Bearings and Pivots properly arranged to prevent Lateral Motion. Beam Compass and Two Cast Iron Poises and Tempered Steel Hooks. Beams and Hooks Finished in Choice of Japan or Polished and Enameled White Graduated White Figures on Red Plate Enameled White

Nos.	B150	B200	B250	B300	B350
Capacity, lbs.	150	200	250	300	350
Wgt. Complete abt. lbs.	7	9	14	15	15
Each	$2.00	2.10	2.70	2.70	3.30

Nos.	B400	B500	B600	B800	B1000
Capacity, lbs.	400	500	600	800	1000
Wgt. Complete abt. lbs.	25	29	33	41	55
Each	$3.50	4.60	5.30	7.10	9.10

Nos. B150 to B300, packed Six in a Case, with Poises. Nos. B350 to B1000, Beams and Poises packed in Separate Cases



STANDARD.

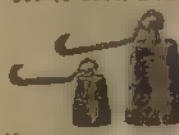
FORGED FROM STEEL; Hardened Pivots and Bearings; Complete with Two Cast Iron Poises and Steel Hooks, Beams and Poises Japanned; Figures Stamped and Enameled Gold.

Nos.	150	200	250	300	350
Capacity, lbs.	150	200	250	300	350
Wgt. Complete abt. lbs.	8	9	14	15	15
Each	$1.50	1.65	1.90	2.00	2.40

Nos.	400	500	600	800	1000
Capacity, lbs.	400	500	600	800	1000
Wgt. Complete abt. lbs.	22	29	33	41	55
Each	$2.90	3.50	4.00	5.00	7.00
	3.50	4.20	4.80	6.40	8.60

Nos. 150 to 300 packed Six in a Case with Poises. Nos. 350 to 1000, Beams and Poises packed in Separate Cases

SCALE BEAM POISES.



SIMMONS BLACK JACK.

Weights Stamped on Iron with Forged Tempered Steel Hook

Nos.	B. 1	B. 2	B. 3	B. 4	B. 6	B. 8	B. 12	B. 16
Weight, lbs.	1	2	3	4	6	8	12	16
For Beams, lbs.	100	250	400	100	300	250	400	600
	150	300	450	150	...	300	450	600
	200	...	...	200	...	350	...	800
	...	...	...	250	...	400	...	...
	...	...	...	300	...	600	...	...
Each	$0.34	.44	.56	.70	1.00	1.20	1.50	2.00

STANDARD.

Black Japanned Cast Iron, with Steel Hooks

Nos.	1	2	3	4	6	8	12	16
Weight, lbs.	1	2	3	4	6	8	12	16
For Beams, lbs.	100	250	400	100	...	300	450	600
	150	300	450	150	...	350	...	800
	200	...	...	200	...	400	...	1000
	...	...	...	250	...	600	...	...
	...	...	...	300	...	...	...	...
Each	$0.30	.40	.50	.70	.90	1.10	1.40	1.70

Packed Loose

SOUTHERN COTTON SCALES.

FAIRBANKS'.

Selected Hardwood Frame, Varnished, secured with Wrought Iron Bolts and Malleable Iron Braces at Joints; Wrought Iron Cross Bars between Legs; Wrought Iron Levers, Chain Downhauls and Hooks; Cast Iron Poises with Steel Hangers. Height under Cross Beams 7 ft.; Floor Space required 8 ft. 11 in. by 3 ft. 4 in.; Figures and lines Stamped and Enameled Black; Weighing by Pounds.

Scales, Complete with Beam, Cotton Frame, Chain Downhauls and Hooks.

CAPACITY 700 POUNDS, BY POUNDS.

		Each
No. 433	POLISHED STEEL BEAM, NOTCHED TOP	$94.00
No. 435	JAPANNED IRON BEAM, SMOOTH TOP	70.00
No. 437	POLISHED STEEL BEAM, SMOOTH TOP	96.00

CAPACITY 800 POUNDS, BY POUNDS

No. 432	JAPANNED IRON BEAM, NOTCHED TOP	$96.00
No. 434	POLISHED STEEL BEAM, NOTCHED TOP	114.00
No. 436	JAPANNED IRON BEAM, SMOOTH TOP	96.00
No. 438	POLISHED STEEL BEAM, SMOOTH TOP	114.00

One in a Bundle; Weight Each about 155 lbs.

SCALE BEAMS.

For Fairbanks' Southern Cotton Scales.
CAPACITY 700 POUNDS, BY POUNDS.

		Each
No. 200F	JAPANNED IRON, NOTCHED TOP	$22.00 $33.00
No. 201F	POLISHED STEEL, NOTCHED TOP	32.00 51.20
No. 202F	JAPANNED IRON, SMOOTH TOP	22.00 33.00
No. 203F	POLISHED STEEL, SMOOTH TOP	32.00 51.20

One in a Bundle; Weight Each about 40 lbs.

CAPACITY 800 POUNDS, BY POUNDS.

No. 204F	JAPANNED IRON, NOTCHED TOP	$43.20
No. 205F	POLISHED STEEL, NOTCHED TOP	37.00 59.20
No. 206F	JAPANNED IRON, SMOOTH TOP	27.00 43.20
No. 207F	POLISHED STEEL, SMOOTH TOP	37.00 59.20

One in a Bundle; Weight Each about 50 lbs.

‡ELLIS' COTTON SCALE FRAMES.

NOTE—NO BEAM OR POISES FURNISHED UNLESS ORDERED SEPARATELY.

Selected Varnished Hardwood Cross Beam and Legs; Complete with Forged Wrought Iron Chain Downhaul, Weighing Hooks and Chain; Length of Cross Beam 7 ft.; Height over all 8 ft.; Floor Space Required 3x7 ft.; Frame Secured with Wrought Iron Braces and Bolts

		Each
‡No. 21SF	Weight per frame complete about 115 lbs.	$30.00

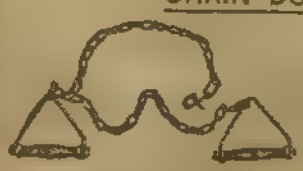
One Frame, Complete, Tied in a Bundle

COTTON HOOKS.

Forged from Wrought Iron; Length over all 3 ft. 4 in

		Each
No. 600	FOR SOUTHERN COTTON SCALES; Weight each about 8 lbs.	$4.00 $6.40

CHAIN DOWNHAULS.



Forged from Wrought Iron; Length 4½ ft.

		Each
No. 603	FOR SOUTHERN COTTON SCALES; Weight each about 2½ lbs.	$2.00 3.20

Packed Loose.

TRUCKS.

SIMMONS RUN EASY.

Select Varnished Heavy Oak Handles; Four Mortised Oak Cross Braces; FULL LENGTH HEAVY JAPANNED IRON HANDLE STRAPS and Nose Iron in One Piece; Heavy Cast Iron Japanned Wheels, WITH PATENT INSET RUBBER TIRES; Malleable Axle Brackets; Handle Grips painted Red.

SIMMONS RUN EASY.

WAREHOUSE OR HOTEL, Iron Strapped Cross Braces, with 3 in. Round Iron Welded, Jointless Legs and Leg Braces; Top and Bottom Bolted Steel Cross Rods for Tightening

Method of Fastening Rubber Tire on Wheel.

Nos.	RF1	RF2	RF3
Length over all, inches	45	52	58
Width, inches	19	20	22
Diameter of Wheel, inches	7½	8½	10½
Weight each about, lbs.	55	70	95
Each	$13.50	14.50	17.00

SIMMONS RUN EASY.

BOX OR GROCERY, without Legs; Cross Braces, Reinforced by Oak Center Strip, all Painted Red; Extra Bent Handle Grips; ⅝ in. Steel Axle.

No. RG—Length over all 47 in.; Width 17 in.; Diameter of Wheel 6¼ in.; Weight each about 30 lbs....Each, $7.00

STANDARD.

Varnished Hardwood Handles; Mortised Wood Cross Braces; Japanned Iron Handle Straps and Nose Iron in One Piece; Cast Iron Japanned Wheels; Malleable Iron Axle Brackets, Flat Steel Legs and Leg Braces, Riveted; ⅝ in. Steel Axle.

STANDARD, WAREHOUSE; HALF IRONED; Handle Straps extend up about 23 in.

Nos.	WH1	WH2	WH3
Length over all, in	48	51	56
Width, inches	19	20	22
Diam. of Wheel, in.	7	8½	9½
No. Cross Braces	3	4	4
Wgt. each abt., lbs.	47	65	85
Each	$6.00	7.00	10.00

STANDARD, WAREHOUSE; FULL IRONED; Handle Straps extend up to Grips about 37 in.

Nos.	WF1	WF2	WF3
Length over all, in	48	51	56
Width, inches	19	20	22
Diam. of Wheel, in.	7	8½	9½
No. Cross Braces	3	4	4
Wgt. each abt., lbs.	50	70	90
Each	$6.00	8.00	11.00

STANDARD, HOTEL; HALF IRONED; Handle Straps extended up about 26½ in.; Rubber Tired Wheels; Handle Grips Painted Black.

Nos.	H1	H2
Length over all, in.	49	51
Width, in.	19	20
Diameter of Wheels, in	12	8
No. of Cross Braces	3	4
Weight each about, lbs	45	65
Each	$10.00	12.50

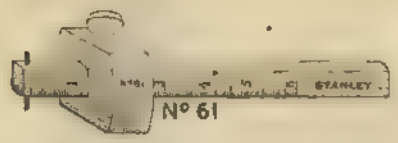
Packed Loose.

‡Goods marked thus (‡) are not carried in stock and can only be furnished by the Special direct from factory

GAUGES

STANLEY'S

MARKING



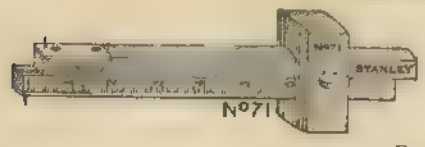
Per Dozen

No. 61—8½ in. Long, Beechwood Bar, Marked 16ths, Beechwood Head, Boxwood Thumb Screw, Fixed Steel Marking Point.....$1.50
Weight Per Dozen 3 Pounds
One Dozen in a Box

Per Dozen

No. 65—8⅛ in. Long, Boxwood Bar, Marked 16ths, Brass Plated Boxwood Head, Brass Thumb Screw and Shoe, Adjustable Steel Marking Point $8 50
Weight Per Dozen 3¾ Pounds
One-half Dozen in a Box

MARKING AND MORTISE



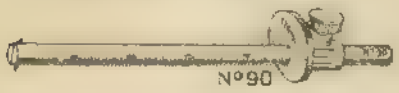
Per Dozen

No. 71—8½ in. Long, Double Beechwood Bars, Marked 16ths, Brass Plated Boxwood Head, Brass Thumb Screw and Shoe, Fixed Steel Marking Points.....$8 00
Weight Per Dozen 4 Pounds
One-half Dozen in a Box

Per Dozen

No. 77—6⅝ in. Long, Rosewood Bar, Marked 16ths, Brass Plated Rosewood Head, Screw Slide, Brass Thumb Screw and Shoe, Fixed Steel Marking Points.....$11.00
Weight Per Dozen 5 Pounds
One-half Dozen in a Box

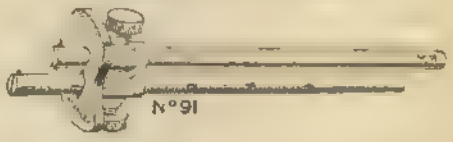
METALLIC MARKING



Per Dozen

No. 90—6½ in Long, Nickel Plated Steel Bar, Marked 16ths, Nickel Plated Iron Head, Adjustable Steel Marking Point, Weight Per Dozen 3 Lbs.....$6 00

METALLIC MORTISE



Per Dozen

No. 91—6½ in. Long, Nickel Plated Steel Bars, Marked 16ths, Nickel Plated Iron Head, Adjustable Steel Marking Points, Weight Per Dozen 6 Lbs $10 00

These Gauges have the steel point inserted very near the ends of the bars to admit of being used close up in a rabbet or corner The head is reversible, giving a broad or narrow bearing, as desired

One-twelfth Dozen in a Box

METALLIC MARKING AND ROLLER CUTTER

Per Dozen

No. 97 6½ in. Long, Nickel Plated Steel Bar, Marked 16ths. Double Faced Nickel Plated Iron Head, Adjustable Steel Marking Point and Roller Cutter, Weight Per Dozen 6 Lbs.....$10 00

METALLIC MORTISE AND ROLLER CUTTER

Per Dozen

No. 98—6½ in. Long, Nickel Plated Steel Bars, Marked 16ths, Double Faced Nickel Plated Iron Head, Adjustable Steel Marking Points and Roller Cutter, Weight Per Dozen 8 Lbs.....$16.00

These Gauges have both Rollers and Steel Points. Roller Cutters are preferable in some work to Steel Points, being especially adapted for running over Knots, across the grain or where a fine line is desired.

One-twelfth Dozen in a Box

NICHOLL'S ROLLER MARKING AND MORTISE

Per Dozen

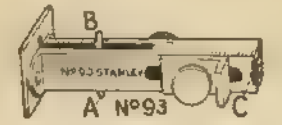
No. 17—8 in. Long, Steel Bar with Inner Rod, Sawtooth Wheels, Nickel Plated $14.40

Having sawtooth wheels this gauge will run with edge of board regardless of knots or crossgrain wood The line made by this wheel is easily seen as the marks are like punch marks and reflect the light from all sides

Weight Per Dozen 5 Pounds
One-twelfth Dozen in a Box

GAUGES

BUTT, RABBET AND MORTISE



Per Dozen

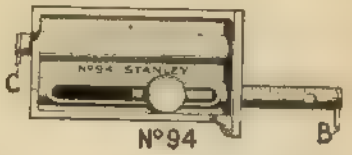
No. 93—Steel Head, Nickel Plated, Brass Slide..$15.60

Similar in construction to No. 94 described opposite. Made so that it can be used as inside or outside square for squaring the edge of the butt on either the door or jamb.

Weight Per Dozen 4 Pounds

One-twelfth Dozen in a Box

BUTT, RABBET AND MORTISE



Per Dozen

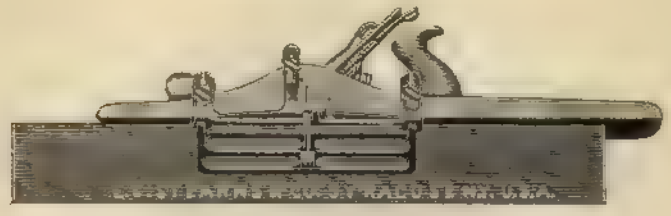
No. 94—3 in. Long, Nickel Plated Steel Bars. Marked 16ths, Nickel Plated Iron Head..$16.80

This Gauge has two bars. One bar has two steel cutters fixed upon it for use when gauging for doors with rabbeted jambs, and in addition is of such form and has the bar so fastened that the bar may be reversed and the gauge used for gauging from the casing, whether of the moulded form or flat, on doors which have a strike strip nailed on after the door is hung. It also has a second bar with a steel cutter to gauge for the thickness of the butt

Weight Per Dozen 9 Pounds
One-twelfth Dozen in a Box

PLANE GAUGES

STEARNS' ADJUSTABLE



For Iron or Wood Planes

Per Dozen

No. 7—Japanned and Nickel Plated..... $28 00

Quickly attached to an Iron Plane by the three thumb screws, for Wood Planes take out the thumb screws and use round head wood screws with washer furnished with gauge.

One-twelfth Dozen in a Box

BIT GAUGES

STANLEY'S ADJUSTABLE

Per Dozen

No. 49 2½ in Long, Iron, Nickel Plated..... $9 60

This Gauge can be attached to bits of any size up to 1 in in diameter Two projections engage with the twist of the bit, so that it can be accurately set for the bit to bore to any depth required. Stops on both sides of the bit insure it remaining upright when the desired depth is reached, thus preventing the worm being bent or broken

Weight Per Dozen 5 Pounds
One-twelfth Dozen in a Box

HARGRAVE

Polished Pin, Steel Screws

Per Dozen

No. 1—Can be Attached to Any Make or Size of Bit Under 1 in., Weight Per Dozen 1 Lb $6 50

No. 2—Will Fit Any Bit Under 2¼ in., Weight Per Dozen 3 Lbs..... 8.50

With this simple device the user can bore holes to any desired depth without withdrawing the bit to measure.

BLIND NAIL TOOL

Per Dozen

No. 96—2¼ in Long, Nickel Plated..... $3 20

This tool can be attached to a ¼ in. Chisel and permits a shaving of any desired thickness

One-half dozen in a Box.

VENEER SCRAPER PLANES

STANLEY'S DOUBLE HANDLE

Each

No. 12 -6¼ in. Long, 3 in. Cutter, Rosewood Handle, with Double Grip..... $3.50
Extra Cutters—For Veneer Scraping..... .18

The handles are of rosewood with a double grip, and, being placed across the center of the tool, give it a good balance The blade is adjustable endwise and for angle, and can be firmly locked in position desired

Weight Each 3¾ Pounds
One in a Box

Each

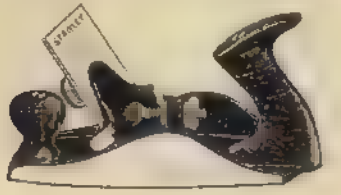
No. 12½—6¼ in. Long, 3 in Cutter, Rosewood Handle, with Double, Rosewood Face. $4 50
Extra Cutters—For Veneer Scraping..... .18

Same as No. 12 Scraper Plane except that it has an extra rosewood bottom. This bottom is especially adapted for use on fine work, and when worn, can be readily removed and a new one substituted

Weight Each 4 Pounds
One in a Box

VENEER SCRAPER PLANES

STANLEY'S SINGLE HANDLE



Each

No. 112—9 in. Long, 3 in Cutter, Rosewood Handle and Knob..... $3 00

This Plane has the same form as the regular Bailey Plane and is preferred by some users to the double handle Scraper Plane. The blade is adjustable endwise and for angle, and can be firmly locked in position desired

Weight Each 4 Pounds
One in a Box

CABINET MAKERS' SCRAPER PLANES

STANLEY'S

Each

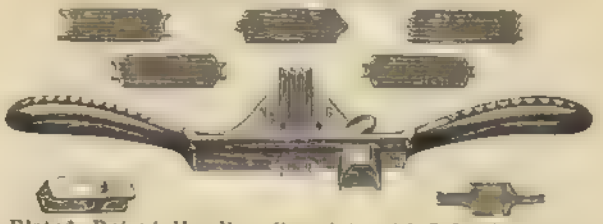
No. 85—8 in. Long, 2 in. Cutter, Rabbet Mouth, Tilting Rosewood Handle and Knob.....$3.00

When in use the blade rests against the front edge of the mouth under a slight pressure. In working the blade springs backward, opening the mouth and allowing the shaving to pass through it. As soon as working pressure is released the blade springs back to its normal position

Weight Each 3 Pounds
One in a Box

HAND BEADERS

STANLEY'S UNIVERSAL



Each

No. 66 11⅛ in Long, Nickel Plated, Raised Handles, Complete with 7 Steel Cutters and One Blank A Square Gauge for Straight Work, and an Oval Gauge for Curved Work $1 40

For Beading, Reading or Fluting straight or irregular surfaces and for light routering

The cutters are sharpened at both ends and embrace the following assortment. 6 single beads ⅛, 3/16, ¼, 5/16, ⅜ and ½ in.; 2 fluting tools ⅛ and ¼ in.; 4 reeding tools (2 beads 3/16 in., 3 beads ¼ in., 3 beads ⅜ in and 4 beads ½ in.), 2 routers ⅛ and ¼ in and a ⅝ in blade which the owner can file as he desires

Weight Each 1⅝ Pounds
One in a Box

CORNERING TOOLS

STANLEY'S

Flat Steel, Nickel Plated

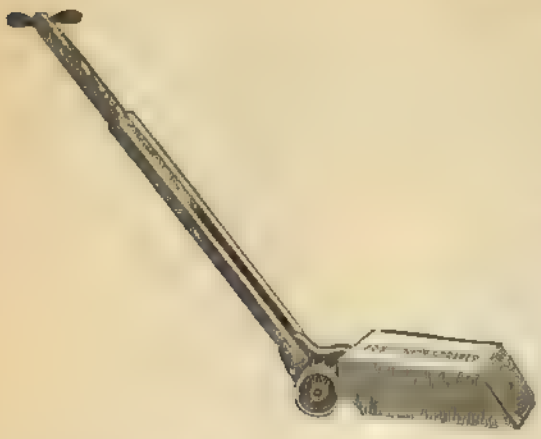
Per Dozen

No 28 3½ in Long, ⅛ and ¼ in Cutters $4 00
No 29 3½ in. Long, 3/16 and ¼ in Cutters 4 50

These tools are used by Pattern Makers and Wood Workers for rounding sharp edges. They have a different size cutter at each end and their form is such that no depth gauge is required

Weight Per Dozen 1⅛ Pounds
One-half Dozen in a Box

FLOOR SCRAPERS



FOX

One Piece, Gray Iron Frame, Rubber Tired Iron Wheels, Adjustable and Telescopic Maple Handle

	Each
Junior—Height of Frame 5 in., Width 4½ in., Length 15½ in., Complete with One Burnisher, One Wrench, One Stone and Four 3x4 in. Knives, Weight Each 65 Lbs.	$22 50
Extra Blades	45

The front of frame is planed for knife and when knife is placed in machine for operating, it is covered with a rubber cushion 3 inches wide, 4 inches long and ¼ inch thick, which lays over knife to eliminate any possible jar and prevent chattering. Both knife and rubber cushion are held with a steel plate, bolted to front of machine with a ½x1½ inch square head cap screw. The bottom of frame is corrugated and when in operation slides on floor like a plane, thus insuring uniform cut.

Weight Each, Boxed 72 Pounds

One Piece Gray Iron Frame, Rubber Tired Iron Wheels, Adjustable and Telescopic Maple Handle

	Each
No. 1—Height of Frame 4¼ in., Width 9 in., Length 15 in., Complete with One Wrench, One 10 in. Mill File, One Oil Stone, One Burnisher, One Clamp for Holding Knife While Filing and Sharpening, Four 3x9 in. Crown Knives, Three 3x4 in. Old Floor Knives, One 3x9 in. Polishing Knife and Directions, Weight Each 85 Lbs.	$45 00
Extra Blades 3x9 in.	.75
Extra Blades 3x4 in.	.45

Weight Each, Boxed 95 Pounds

One Piece Gray Iron Frame, Rubber Tired Iron Wheels, Adjustable and Telescopic Maple Handle, with Adjustable Weight

	Each
No. 3—Height of Frame 4 in., Width 9 in., Length 18 in., Complete with One Wrench, One Burnisher, One File, One Oil Stone, One Clamp for Holding Knife While Filing and Sharpening, Six Old Floor Knives, Twelve Crown Knives, One Special Knife, Substitute for Sander, and Directions, Weight of Machine with Adjustable Weight 125 Lbs.	$72.00
Extra Blades 3x9 in.	.75
Extra Blades 3x4 in.	.45

Weight Each, Boxed 135 Pounds

These machines will scrape and surface all kinds of flooring, old or new, and any kind of wood. Oak, maple, yellow pine, fir, ash, birch, etc.

The front of frame is planed for the knife and when knife is placed in machine for operating, it is covered with a rubber cushion 9 inches long, 4 inches wide and ¼ inch thick, which lays over knife to eliminate any possible jar and prevent chattering. The knife and rubber cushion are held with a steel plate bolted to front of machine with three ½x1½ inch square head cap screws.

A great feature of No. 1 Scraper is that when in operation 80 per cent of the entire weight rests on the knife exactly where it is required, and when not in operation, the knife is automatically raised, thus preventing it from marring the floor.

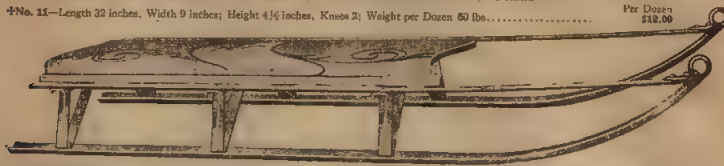
The special feature of No. 3 Scraper in addition to 80 per cent of the weight resting on the knife, is the adjustable weight, which permits the operator to add additional weight and place this weight where he desires it.

Note—No. 1 Carried in Stock; Junior and No. 3 Shipped Direct from Factory Only

✣STEEL COASTERS
STAR

This is the best Steel Coaster ever put on the market for the money. All Steel except the Top. The Runners are made of the celebrated Round Back Angle Steel used on all Star Steel Sleds. It has Wood Top well Painted, Varnished and nicely Decorated

	Per Dozen
✣No. 11—Length 32 inches. Width 9 inches; Height 4½ inches, Knees 2; Weight per Dozen 60 lbs.	$12.00



These Coasters are Quick Sellers. The general outlines are most symmetrical and beautiful, and are finished in any medium priced wooden Coaster. They are attractive, and every boy will see at a glance that they are built for speed. Remember the Steel Runners are made of our special Round Back Angle Steel and this makes the fastest Coaster that ever skimmed the snow. Running Gears Painted in Assorted Colors, artistically Striped. We are making the Beams of these Coasters of Channel Steel instead of Wood, as heretofore.

	Per Dozen
✣ No. 1—Length 34 inches; Width 10½ inches; Height 4½ inches; Knees 2, Weight per Dozen 75 lbs.	$16.00
✣ No. 2—Length 37 inches; Width 11½ inches; Height 4½ inches, Knees 2; Weight per Dozen 90 lbs	18.00
✣ No. 3—Length 40 inches, Width 12 inches; Height 4½ inches, Knees 2 Weight per Dozen 105 lbs	21 00
✣ No. 4—Length 43 inches; Width 12 inches; Height 4½ inches, Knees 3, Weight per Dozen 125 lbs	24 00

It is with pride that we present to you our line of fancy Coasters. They [illegible] as of boys' Coasters and far excel anything of the kind ever before attempted. The Scroll Tops that add so much to their attractiveness are [illegible] All Iron and Turned and Form a contrast with the Rich colors that can only be appreciated when seen. The Beams in these Coasters are [illegible] are Steel Instead of Wood as heretofore.

	Per Dozen
✣ No. 105—Length 44 inches Width 12 inches, Height 4 inches, Knees 4, Weight [illegible]	$32.00
✣ No. 108—Length 48 inches, Width 12 inches, Height 4½ inches Knees 4 Weight [illegible] lbs	40.00

✣BOB SLEDS
STAR

Our "American Boy" Bobs have been so generally introduced to the trade that we do not consider it necessary to [illegible] They are without question the best Bob Sleds ever offered for the money. They ride easier than other Bob Sleds, because both Forward and Rear Runners are made to oscillate, thereby giving a new ground movement. The Runners are to be of our special Round Back Angle Steel, which gives all Star Steel Sleds such ease. The Knees are constructed according to our patented Bridge Truss principle and makes sleds so strong. The Runners are finished in Assorted Colors artistically Striped. The Tops are handsomely Hand Decorated.

	Per Dozen
✣ No. 201 Length 40 inches Width 9½ inches, Height 5 inches Weight per Dozen 120 lbs	$24.00
✣ No. 202—Length 44 inches, Width 11 inches Height 5½ inches, Weight per Dozen 140 lbs	28.00
✣ No. 203—Length 48 inches Width 11½ inches Height 5½ inches, Weight per Dozen 150 lbs	32.00

Items Marked ✣ Not Carried in Stock; Can Only Be Furnished By Shipping Direct From Factory, Harvard, Ill.

COW BELLS.

SIMMONS HIGH TONE.

Stamped from Sheet Steel, Brassed; Riveted Joint; Steel Loop Riveted through Top; Cast Iron Clapper, with Wire Hanger.

Nos.	H0	H1	H2
Width at Mouth, in.	3¼	3½	3⅝
Length at Mouth, in...	5½	6	6⅝
Size of Loop in...	2⅛	2⅜	1⅝
Hght. without Loop, in.	5	6½	5⅞
Wgt per doz., abt, lbs..	28	24	20
Per dozen ..	$11.00	10.00	8.00
	8.40	7.00	6.60

Nos	H3	H4	H5	H6	H7
Width at Mouth, inches	2¾	2⅞	2⅞	2⅞	3
Length at Mouth, inches	4	3½	2⅝	2⅝	3⅜
Size of Loop, inches.....	1⅛	1⅜	1¼	1⅜	1⅜
Height without Loop, inches	5¼	4⅛	2½	3	2½
Weight per dozen about, lbs	14	10	6	5	4
Per dozen	$5.00	5.00	4.00	3.00	2.50
	4.20	3.50	2.80	2.10	1.80

HOLSTEIN

Stamped from Sheet Steel, Brassed, Brazed and Riveted Joint; Steel Loop Riveted through Top; Cast Iron Clapper with Wire Hanger.

Nos.	0	1	2
Width at Mouth, in	3¾	3½	3⅛
Length at Mouth, in	5½	6	4⅞
Size of Loop, in.	2⅛	2⅜	1⅝
Hgt. without Loop, in	7	6½	5⅞
Wgt. per doz. abt., lbs	28	24	20
Per dozen	$12.00	10.00	8.00
	7.20	6.00	4.80

Nos	3	4	5	6	7	Bog
Width at Mouth, in...	3⅛	2⅞	2⅝	2¾	2	2½
Length at Mouth, in...	4	3½	3⅛	2⅝	2⅜	3½
Size of Loop, in.....	1½	1⅜	1⅛	1⅛	1¼	
Hgt. without Loop, in.	5¼	4⅛	3¼	3	2½	2⅝
Wgt. per doz. abt. lbs.	14	10	6	5	4	8
Per dozen	$6.00	5.00	4.00	3.00	2.50	5.00
	3.60	3.00	2.40	1.80	1.50	3.00

Packed Loose.

TEAM BELLS.

Bell Metal, Polished, with Malleable Iron XC Plate (Tinned) Snap, Riveted on; Height of Bell 1⅞ in.; Height over all 4 in.

Per Dozen

No. 3/8—2¾ IN DIAMETER; Weight per dozen about 5½ lbs. $5.50

One-half Dozen in a Package.

Stamped Steel, Copper Plated; 1 in. Metal Loop, Riveted

Per Dozen

No. 120—3⅜ IN DIAMETER; Weight per dozen about 6 lbs. $3.00

One Dozen in a Package.

COW BELLS.

Cast Bell Metal; Polished Rim; Natural Finish Bowl and Loop; Cast Iron Tongue, with Wire Hanger.

Per Dozen

No. 48—DIAMETER OF FACE 4¼ IN., Width of Loop 1⅝ in.; Height over all 4½ in.; Weight per dozen about 18 lbs. $18.00

No. 55—DIAMETER OF FACE 5 IN., Width of Loop 1¼ in.; Height over all 5 in.; Weight per dozen about 25 lbs. 21.00

Packed Loose.

HORSE-CAR BELLS.

White Metal; Rough; Loop and Tongue Cast into Bell.

Per Pound

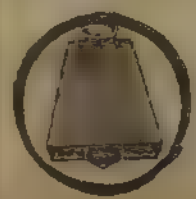
No. 30—3 IN. DIAMETER; Weight per dozen about 9 lbs. $0.90

No. 35—3½ IN DIAMETER, Weight per dozen about 10 lbs. ..... .90

No. 40—4 IN. DIAMETER; Weight per dozen about 13 lbs ..... .90

Packed Loose.

SHEEP BELLS.



Common Bell Metal Bell; 1¼ x 1¼ in. in Diameter; Black Strap ⅝ in. Wide, 30 in. Long, with Buckle Riveted to Strap. Bell Wire Fastened.

Per Dozen

No. 25—Weight per dozen about 5 lbs. $5.50

Packed Loose.

TURKEY BELLS.

TURKEY; STEEL, NICKEL PLATED

No. 107—With Double Throat, 1¼ in. Diameter; ½ x 7 in. Black Strap with Buckle Riveted to Bell; Weight per dozen about 2¾ lbs. ..... Per Dozen, $1.60

Two Dozen in a Cardboard Box

SLEIGH BELLS.

BELL METAL, BRASS FINISH, POLISHED.

Nos.	00R	0R	1R
Diameter, inches	⅞	1	1⅛
Weight per doz. abt., lbs.	1	1⅛	15/16
Per dozen	$0.60	.70	.80
Nos.	2R	3R	4R
Diameter, inches.....	1¼	1⅜	1½
Weight per doz. abt., lbs..	1¼	1¼	1⅜
Per dozen	$1.00	1.20	1.60
Nos	5R	6R	8R
Diameter, inches	1⅝	1⅞	2
Weight per doz. abt., lbs..	1⅝	2	3
Per dozen	$2.00	2.50	3.00

Packed Loose

ALASKA; NECK STRAP.

No. 5122.

Bell Metal Bells, Brass Finish, Russet Harness Leather, Lined with Soft Pebbled Russet Leather, Fastened by Enameled Cloth Loops; Buckle with Chafe and Billet Riveted on, Bells Wire Fastened

Per Strap

No. 5122—9 SINGLE THROAT BELLS; Assorted Sizes; Two 1⅛ in.; Two 1¼ in.; Two 1⅜ in.; Two 1½ in., One 1⅝ in.; Strap 1 in. Wide, 36 in. Long; Weight per Strap about 3 lbs. $1.30

No. 5123—13 SINGLE THROAT BELLS; Assorted Sizes; Two 1⅛ in.; Two 1¼ in.; Two 1⅜ in.; Two 1½ in.; Two 1⅝ in.; One 1¾ in.; Strap 1 in. Wide, 52 in. Long; Weight per Strap about 3 lbs. 2.00

Two Straps in a Package.

SLEDS.

STEEL FRAME

GOOSE NECK SLED

Enameled Round Back Angle Steel Runners; Two Steel Knees, with Steel Braces Tinned Malleable Iron Goose Necks, Top Board Handsomely Painted and Hand Decorated.

Per Dozen

No. 6—30x12 in. over all; 7½ in. High; Weight per dozen about 90 lbs. $25.00

No. 8—33x12 in. over all; 7½ in. High; Weight per dozen about 95 lbs. 27.00

Enameled Round Back Angle Steel Runners; Two Steel Knees, with Steel Braces; Top Board Handsomely Painted and Hand Decorated

Per Dozen

No. 2—29x10 in. over all; 6 in. High; Two Steel Knees; Weight per dozen about 70 lbs. $17.00

No. 4—30x12 in. over all, 7½ in. High; Two Steel Knees; Weight per dozen about 85 lbs. 19.00

No. 6—33x12 in. over all; 7½ in. High; Two Steel Knees; Weight per dozen about 90 lbs. 23.00

Runners made of Oval Steel Painted Black; Two Steel Knees without Braces; Wood Top, Well Painted, Varnished and Nicely Decorated

No. 1—27x9 in. over all; 6 in. High; Weight per dozen about 60 lbs. Per Dozen $14.00

One-sixth Dozen in a Bundle, Assorted Colors.

SLEDS.

WOOD FRAME

Three Bent Hardwood Knees, with Double Braced, Heavy Polished Oval Steel Shoes, Finely Polished and Ornamented

Per Dozen

No. 210—ROCK ELM; 40x13 in. over all; 8 in. High; Weight per dozen about 80 lbs.....$26.00

One-sixth Dozen in a Bundle, Assorted Colors

Three Bent Hardwood Knees; Round Side Fenders, Tinned Braces, Half Oval Iron Shoes, Finished on the Natural Wood, Top Board Painted and Ornamented

No. 206—SELECTED OAK; 35x12 in. over all; 7 in. High; Weight per doz. about 84 lbs...Per Dozen $23.00

One-sixth Dozen in a Crate, Assorted Colors.

Three Bent Knees Tinned Braces; Flat Iron Shoes, Painted Red; Top Board Handsomely Decorated

Per Dozen

No. 203—ROCK ELM; 35x12 in. over all, 8 in. High, Weight per dozen about 70 lbs.....$18.00

One-half Dozen in a Crate, Assorted Colors.

Two Bent Hardwood Knees, with Iron Braces, Round Side Fenders, Iron Swan Heads; Flat Iron Shoes; Varnished and Striped; Top Board Painted and Ornamented

No. 204—HARDWOOD, 32x12½ in. over all; 7 in. High, Weight per doz. about 54 lbs...Per Dozen $14.50

One-sixth Dozen in a Bundle, Assorted Colors.

Three Bent Hardwood Knees; Flat Iron Shoes; Varnished; Top Board Painted.

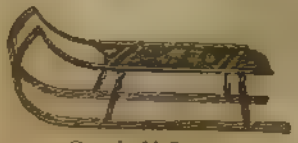
Per Dozen

No. 202—HARDWOOD, 35x12½ in. over all; 7 in. High; Weight per doz. about 60 lbs.$12.00

Two Bent Hardwood Knees; Flat Iron Shoes; Varnished; Top Board Painted

Per Dozen

No. 200—HARDWOOD 35x12½ in. over all; 7 in. High; Weight per dozen about 48 lbs...$9.00

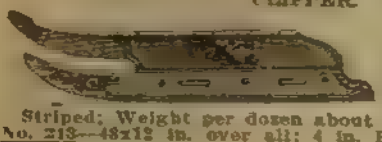


Two Straight Hardwood Knees; Flat Iron Shoes; Varnished; Top Board Painted.

Per Dozen

No. 198—HARDWOOD; 36x11 in. over all; 6 in. High; Weight per dozen about 42 lbs.....$5.20

One-half Dozen in a Crate, Assorted Colors



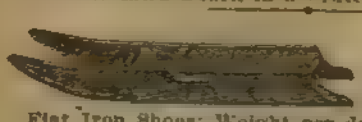
CLIPPER HARDWOOD; Round Spring Steel Shoes

Per Dozen

No. 212 42x12 in. over all 4 in. High; Varnished, Ornamented and Striped; Weight per dozen about 140 lbs.....$23.00

No. 213—48x12 in. over all; 4 in. High, Varnished on the Natural Wood; Ornamented and Striped; Weight per dozen about 165 lbs.....$30.00

One-third Dozen in a Crate, Assorted Colors.



HARDWOOD; Painted, Varnished and Ornamented

Per Dozen

No. 201—32x10 in. over all; 4 in. High, Flat Iron Shoes; Weight per dozen about 74 lbs $ 6.00

No. 221—36x11 in. over all; 4 in. High; Round Spring Shoes; Weight per dozen about 105 lbs..... 21.00

One-half Dozen in a Crate.

No. 223—42x12 in. over all; 4 in. High; Round Spring Shoes; Weight per dozen about 150 lbs..... 18.00

One-third Dozen in a Crate; Assorted Colors.

COASTER SLEDS.

STEERING

KING KOASTER.

Made of First Quality Second Growth Ash, Natural Finish, Weather-proof Varnished and Striped; Highest Quality Flexible Spring Steel Shaped Runners, with Long Bearing Surface on Snow in Front of Forward Knees, Insuring Perfect and Easy Steering; Braced with Pressed Steel Knees; All Parts Strongly Riveted; All Metal Parts Enameled in High Gloss Vermilion Color; Fitted with Steering Bar convenient for hands or feet, enabling rider to guide easily without the dragging of feet that is necessary with the Ordinary Sled.

Per Dozen

No. KK11—35x11½ in. over all; 6 in. High; Weight per dozen about 90 lbs.....$21.50

Per Dozen

No. KK12—41x13½ in. over all; 6½ in. High; Weight per dozen about 120 lbs.....$32.00

Per Dozen

No. KK13—47x13½ in. over all; 6½ in. High, Weight per dozen about 144 lbs.....$41.00

SPECIAL

Made of Good Quality Second Growth Ash, Natural Finish, Varnished and Striped, Special Round Back Angle Steel Runners; Flat Steel Knees and Braces; All Parts Strongly Riveted; All Metal Parts Enameled in Vermilion Color; Strong Steering Bar convenient for hands or feet

Per Dozen

No. 100—35x11½ in. over all; 6 in. high Weight per dozen about 102 lbs.....$17.50

One-sixth Dozen in a Crate.

STEEL FRAME.

Special Round Back Angle Steel Runners, Enameled Steel Knees, with Steel Braces; Top Board Handsomely Painted and Hand Decorated.

Per Dozen

No. 8—34x10½ in. over all; 4½ in. High; Two Steel Knees; Built for Speed; Weight per dozen about 76 lbs.....$18.00

No. 9—37x11½ in. over all, 4½ in. High; Two Steel Knees; Weight per dozen about 90 lbs..... 21.00

No. 10—40x12 in. over all; 4½ in. High; Two Steel Knees; Weight per dozen about 105 lbs..... 24.00

Oval Steel Runners, Painted Black, Two Steel Knees, without Braces; Wood Top Well Painted, Varnished and Nicely Decorated.

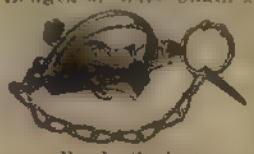
No. 1/C—32x9 in. over all, 4½ in. High; Weight per dozen about 60 lbs.....Per Dozen, $14.00

One-sixth Dozen in a Bundle Assorted Colors.

STEEL TRAPS.

STEEL JUMP TRAPS

Stamped from Sheet Steel, Tempered Springs. Average Length of Wire Chain 15 Inches



Single Spring.

SINGLE SPRING

Per Dozen

No. 0J RAT OR GOPHER Spread of Jaws 3½ in.; Weight per dozen about 5 lbs..$4.25 2.50

No. 1J—MUSKRAT; Spread of Jaws 4 in., Weight per dozen about 7 lbs..... 5.00 2.90

No. 1½J MINK Spread of Jaws 4¾ in.; Weight per dozen about 7 lbs..... 7.50 4.50

One Dozen in a Cardboard Box. 12 Dozen in a Case.

SARGENT & CO'S

SINGLE SPRING

Per Dozen

No. 1 SJ—MUSKRAT Spread of Jaws 4 in., Weight per dozen about 7 lbs.....$5.00 2.90

No. 1½ SJ—MINK Spread of Jaws 4¾ in.; Weight per dozen about 7 lbs..... 7.50 4.50

Double Springs.

DOUBLE SPRINGS

Per Dozen

No. 2J—COON OR MINK; Spread of Jaws 5 in.; Weight per dozen about 6½ lbs.....$10.50 6.00

No. 3J—FOX; Spread of Jaws 5½ in.; Weight per dozen about 16 lbs..... 14.00 8.00

No. 4J—OTTER Spread of Jaws 6½ in.; Weight per dozen about 17 lbs..... 16.50 9.50

SARGENT & CO'S

DOUBLE SPRINGS

Per Dozen

No. 2 SJ—COON OR MINK Spread of Jaws 4⅞ in., Weight per dozen about 9½ lbs.....$10.50 6.00

No. 3 SJ—FOX; Spread of Jaws 5½ in.; Weight per dozen about 16 lbs..... 14.00 8.00

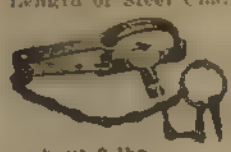
No. 4 SJ OTTER Spread of Jaws 6½ in.; Weight per dozen about 17 lbs..... 16.50 9.50

Packed Loose

GENUINE NEWHOUSE

Stamped from Sheet Steel; Tempered Springs; Average Length of Steel Chains 20 in

SINGLE SPRING.



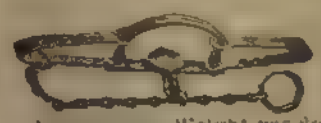
Per Dozen

No. 0N—RAT OR GOPHER Spread of Jaws 3½ in.; Weight per dozen about 6 lbs.....$4.25 2.10

No. 1N—MUSKRAT; Spread of Jaws 4 in.; Weight per dozen about 9 lbs..... 5.00 2.80

No. 1½N—MINK, Spread of Jaws 4¾ in.; Weight per dozen about 13 lbs.....7.50 7.20

DOUBLE SPRINGS



Per Dozen

No. 2N FOX, Spread of Jaws 5½ in. Weight per doz abt. 17 lbs $10.50 10.00

No. 3N—OTTER, Spread of Jaws [illegible] Weight per dozen about 28 lbs 14.00 13.30

No. 4N BEAVER Spread of Jaws 6½ in.; Weight per dozen about 33 lbs..... 16.50 15.70

DOUBLE JAWS, SINGLE SPRING

These Traps are Especially Adapted for Muskrat Skunk, Mink, Raccoon, Fox or Woodchuck. The Double Jaws take an easy Firm Grip so high up on a Muskrat that it can not Twist out and a Skunk can not gnaw out.

Nos.	91	91½
Spread of Jaws in Inches	5¾	6½
Length over all, Inches	8¼	9½
Weight per dozen about, lbs.	10	15
Per dozen	$6.00	9.00
	5.70	8.60

NOTE.—Muskrats do not usually gnaw their legs off when caught, but twist out, especially when caught by the fore leg, which has much smaller bones and less muscle than the hind leg. These traps rarely break leg bones because of the double jaw surfaces.

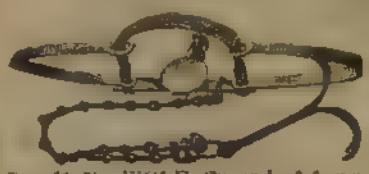
Packed Loose.

STEEL TRAPS.

Stamped from Sheet Steel; Tempered Springs; Average Length of Steel Chains 20 in.

GENUINE NEWHOUSE

DOUBLE SPRINGS, WITH STEEL CHAIN



Per Dozen

No. 4½N W O L F Spread of Jaws 6½ in., with extra heavy Chain. Weight per dozen about 31 lbs. $17.50 16.70

No. 4½N—WOLF, Spread of Jaws 8 in. with extra heavy Chain, Swivel, Snap and Pronged Drag; Weight per dozen about 98 lbs 40.00 38.00

Per Dozen

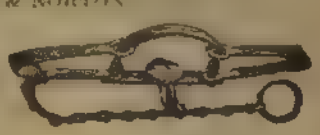
No. 1N—B E A R, Spread of Jaws 11½ in., with heavy C h a i n, Swivel and Ring. Weight per dozen about 217 lbs $130.00 114.00

No. 6N—BEAR, Spread of Jaws 16 in., with heavy Chain Swivel and Ring Weight per dozen about 516 lbs.....$280.00 260.00

Packed Loose

HAWLEY & NORTON

Single Spring



Double Spring

[illegible] Steel Chain

SINGLE SPRING

Per Dozen

No. 0HN—RAT OR GOPHER, Spread of Jaws 3½ in., Weight per dozen about 6 lbs $4.25 2.00

No 1HN—MUSKRAT; Spread of Jaws 4 in., Weight per dozen about 9 lbs..... 5.00 3.50

One Dozen in a Cardboard Box. Twelve Dozen in a Case

No. 1½HN—MINK; Spread of Jaws 4½ in.; Weight per dozen about 13 lbs..... 7.50 5.30

DOUBLE SPRINGS

No. 2HN—FOX; Spread of Jaws 4⅞ in., Weight per dozen about 16 lbs.....$10.50 7.40

No. 3HN—OTTER, Spread of Jaws 5¼ in.; Weight per dozen about 25 lbs..... 14.00 9.80

No. 4HN—BEAVER Spread of Jaws 6½ in.; Weight per dozen about 38 lbs..... 16.50 11.60

VICTOR (ONEIDA) NEWHOUSE PATTERN.

SINGLE SPRING.

With Wire Chain

Per Dozen

No. 0V RAT OR GOPHER, Spread of Jaws 3½ in., Weight per dozen about 6 lbs $4.25 2.00

No. 1V MUSKRAT, Spread of Jaws 4⅛ in.; Weight per dozen about 9 lbs. 5.00 2.30

No. 1½V—MINK, Spread of Jaws 4¾ in. Weight per dozen about 13 lbs... 7.50 3.40

DOUBLE SPRINGS

No. 2V—FOX, Spread of Jaws 4½ in., Weight per dozen about 16 lbs.. $10.50 4.80

No. 3V—OTTER; Spread of Jaws 5 in., Weight per dozen about 25 lbs..... 14.00 6.30

No. 4V—BEAVER; Spread of Jaws 5¾ in., Weight per dozen about 28 lbs..... 16.50 7.50

SARGENT & CO.'S ONEIDA PATTERN

SINGLE SPRING

With Wire Chain

Per Dozen

No. 0/S—RAT OR GOPHER; Spread of Jaws 3½ in., Weight per dozen about 6 lbs $4.25 2.10

No. 1/S—MUSKRAT; Spread of Jaws 4 in.; Weight per dozen about 9 lbs..... $ 5.00 2.40

No. 1½/S—MINK; Spread of Jaws 4⅞ in., Weight per dozen about 13 lbs..... 7.50 3.60

DOUBLE SPRINGS.

No. 2/S—FOX; Spread of Jaws 4⅞ in.; Weight per dozen about 16 lbs..... $10.50 5.00

No. 3/S—OTTER, Spread of Jaws 5¼ in. Weight per dozen about 25 lbs..... 14.00 6.65

No. 4/S—BEAVER, Spread of Jaws 6½ in., Weight per dozen about 28 lbs..... 16.50 7.90

Packed Loose

COMBINATION STEEL TRAPS.

GENUINE NEWHOUSE SINGLE STEEL SPRING, WITH CHAIN

Spread of Jaws 4 in.; with Webbed Jaws, which prevents the animal from gnawing off its leg and escaping.

No. 81 COMBINATION RAT GOPHER, MUSKRAT OR MINK; Weight per doz. about 10 lbs. Per Dozen, $5.50 $6.20

Packed Loose.

STEEL TRAP CLAMPS.

GENUINE NEWHOUSE

Malleable Iron, Natural Finish, for Setting Steel Traps.

Nos	4	5	6
Weight per dozen about, lbs	3	5	15
Per dozen	$2.50	6.00	10.00
	3.00	8.50	15.00

No. 4 is suitable for Traps smaller than No. 4½, Nos. 5 and 6 are especially adapted for larger Bear Traps.

Packed Loose.

ANIMAL POKES.

COW BOY.

Forged from Wrought Steel, Japanned Finish; Bolted at Joints. Adjustable to Four Sizes. Diameter of Rowel Wheels 1⅞ in.

Per Dozen

No. 2 CB—COW. Adjustable, 12 to 16 in. Size of Steel ¾x3/16 in.; Length over all 36 in. Weight per dozen about 30¾ lbs. $12.00

No. 3H CB—BULL. Adjustable, 14 to 17 in.; Size of Steel ¾x3/16 in., Length over all 39½ in.; Weight per dozen about 37½ lbs. $14.00

One-half Dozen in a Bundle

BROWN PATTERN.

Medium Size; Forged from Wrought Steel; Plain Finish, Bolted at Joints; Size of Steel ¾x 3/16 in.; Length over all 36 in.; Weight per dozen about 45 lbs.

Per Dozen

No. 3B—BROWN'S PATTERN, FOR COWS ONLY...$10.00

ACME PATTERN FOR COWS ONLY

Medium Size

Japanned Round Steel Frame; Tipped, Twisted Wire Nose-Piece; Length over all 29 in.

Per Dozen

No. 3—Weight per dozen about 32 lbs. $11.50

One-half Dozen in a Bundle.

[illegible], SELECTED HARDWOOD; Plain Finish Malleable Iron Fittings at Nose, Steel Wire Spring at Joint; Regular Size; Length 4½ ft.

Per Dozen

No. 3—Weight per dozen about 50 lbs. $11.00

One-half Dozen in a Bundle.

SUNBURY, SELECTED HARDWOOD, Plain Finish; Throat Strap Adjustable to Any Size. Length 4½ ft.

Per Dozen

No. 3—Weight per doz. abt. 50 lbs...$12.00

One-half Dozen in a Bundle.

SUCCESS PATTERN, SELECTED HARDWOOD, Plain Finish, Regular Size; Length 4½ ft.

Per Dozen

No. 3P—Weight per dozen about 46 lbs. $9.00

One-half Dozen in a Bundle

AKRON PATTERN, SELECTED HARDWOOD, Plain Finish, Regular Size; Steel Wire Spring at Joint. Size of Wire Irons, Length 4½ ft.

No. 1—Weight per dozen about 40 lbs...Per Dozen, $8.10

One-quarter Dozen in a Bundle

SHEPHERD'S CROOKS.

MONTANA Socket Pattern, Regular Tapering Shoulder; Turned Tip; Length 12 in.; Forged Steel, Polished, Spring Tempered WITHOUT HANDLES.

Per Dozen

No. 17M—Weight per Dozen about 9 lbs. $12.00

Packed Loose

JANON Socket Pattern, Montana Pattern Tapering Shoulder, Rounded Tip; Length 11½ in. over all; Made from ⅜ in. Double Steel Spring Wire, with 2½ in. Steel Socket Welded at Full Tipped Finish. WITHOUT HANDLE.

No. 20—Weight per dozen about 10 lbs.. Per Dozen, $6.00

Four Dozen in a Cardboard Box.

SHEPHERD'S CROOK HANDLES.

FOR NOS. 17M AND 20 SHEPHERDS' CROOKS.

Select (X Quality) Ash, Belted Finish, Length 3 ft.

Per Dozen

No. S—Weight per dozen about 27 lbs $6.00

Packed Loose

DEHORNING SAWS.

KEEN KUTTER.

Japanned Malleable Iron Frame ⅝ in. Thick, ⅞ in. Wide, and equipped with a guard to protect the hand; With 10 in. Tempered and Polished Steel Blade, adjusted by Malleable Thumb Nut at front end; Length over all 15 in. Distance from inside of Frame to Cutting Edge of Blade 3 in.; Selected Hardwood Handle, Varnished [illegible] tened to Frame with [illegible]

Per Dozen

No. K210—KEEN KUTTER; Weight per doz. about 16 lbs $14.00

One-third Dozen in a Cardboard Box

OAK LEAF.

[illegible] Frame, 5/16 in. [illegible] ⅝ in. Wide, [illegible] Grip Handle with Varnished Edges, Riveted to Frame; 10 in. Tempered Steel Blade Held in Frame by Lugs on Each End of Frame and Tightened by Wing Thumb Nut; Length over all 15 in., Depth from Back of Frame to Cutting Edge of Blade 2¼ in. [illegible]

Per Dozen

No. E10—OAK LEAF; Weight per dozen about 15 lbs $9.00

One-half Dozen in a Box.

DEHORNING SAW BLADES.

Tempered and Polished; ⅝ in. Wide, 10 in. Long; For No. K210.

Per Dozen

No. K210R—KEEN KUTTER, Weight per dozen about ½ lb $1.00

Tempered Steel, Straw Colored; ⅝ in. Wide 10 in. Long; For No. E10.

Per Dozen

No. E10DB—OAK LEAF; Weight per doz. about ½ lb. $1.00

Packed Loose

DEHORNERS.

RIDGELY'S, with Double Steel Knives

Malleable Iron Dull Black Finish Handles, Cogs and Frame Polished Grips; Two Tempered Polished Crucible Steel Blades (sharpened ready for use); Blades 3/16 in. Thick, 2 in. Wide; Joints have Polished Hexagon Head, Nuts and Bolts; Length over all 35 in.; Handles 27 in. Long; ¾ in. Iron, with 4½ in. Grip Extreme Width of Frame 9½ in.; Blades are Bolted to Frame and Handles.

No. R—FOR ANY SIZE CATTLE. Weight each about 12 lbs. ..... Each, $14.00

Sent by Express

LEAVITT'S DRAW-CUT. Malleable Iron Japanned Handles, Cogs and Frame; Tempered Steel Draw-Cut Blade, Sharpened Ready for Use; Riveted to Toothed Plunger; Handles bolted to Frame. Each

No. 1D—SMALL SIZE, FOR CALVES ONLY. Diameter of Horn Opening 2 in.; Blade 3/32 in. Thick, 2¼ in. Wide, With 2 in. Cutting Edge; Length over all 2 in.; Handles 22 in. Long; Weight each about 5 lbs. $6.50

No. 2D—MEDIUM SIZE, FOR YOUNG CATTLE; Diameter of Horn Opening 3⅝ in.; Blade 3/16 in. Thick, 4 in. Wide, with 3 in. Cutting Edge, Length over all 40 in.; Handles 30 in. Long; Wgt. each abt. 12 lbs. $10.00

Six in a Bundle

No. 1507.

These Machines combine several new features not found in any other make now on the market.

The "Sterling" Power Hack Saw has milled gears, securing more power by this feature. A narrower belt can be used and have ample amount of belt surface on driving pulley, which cannot be obtained on a direct-driven machine.

Saw is stopped automatically on backward stroke, which throws belt from tight to loose pulley.

Buckling or breaking of saw is minimised by possessing gravity feed. Weight can be adjusted to get the best results on either machinery or tool steel

The swivel vice, cutting to an angle of 45°, is interchangeable, so that a broken vice can be replaced in a few minutes.

Length of blades, 10 in. to 12 in.
Stroke of blade, 6 in.
Cutting capacity, 5 in. × 5 in.
Tight and loose pulleys, 10 in. diam., 1⅞ in. face.
Geared, 3 to 1.
Swivel vice adjustable to 45° angle.
Vice jaws, 2⅝ in. high, 4½ in. wide, 6 in. opening.
Floor space, 17 in. × 30 in.
Net weight, 155 lb. Crated, 195 lb.
Weight, knocked-down and boxed, 245 lb.
Half dozen 12 in. × ⅝ in. blades free with each machine.

Price Complete, £6 : 0 : 0 **Larger Machine Capacity, 6 in. × 6 in., £7 : 2 : 6**

High-Speed Power Hack Saw.

Special Advantages.

High Speed ... . This saw can be run safely at 100 strokes per minute with lubricant, or even at a higher speed where time is an element.

Pump and Lubricant The front cabinet leg is a tank, to which pump can be attached for supplying soda water to keep blade cool when running at high speed.

Adjustable Frame .. ... Whereby any length of blade from 17 in. to 21 in., inclusive, can be used.

Milled Gears ... ... The gears are milled, being of wide face and strong, to stand hard work.

Bearings . Large and heavy to stand the hard work which is entailed when running at high speed. Gear bearings are adjustable, so when parts wear the lost motion can be taken up, which will be necessary in a reciprocating machine run at high speed.

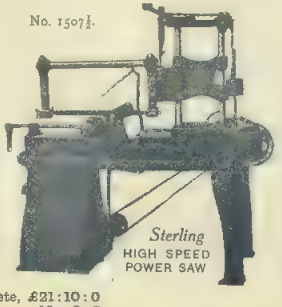
Swivel Vice . Cutting any length to 45° angle Also possesses gravity feed and automatic shut-off.

Length of blades, 17 in. to 21 in., inclusive.
Stroke of blade, 6 in.
Cutting capacity, 12 in. × 8 in.
Tight and loose pulleys, 10 in. diam., 2¼ in. face.
Geared nearly 3 to 1.
Net weight, 520 lb. Crated, 610 lb.

Blades can be put in machine with rake of teeth either forward or backward; after using one-half of the blade, by reversing saw in frame, you can use the other half and secure equally as good results. A saving can be effected of nearly one-half the quantity of Hack Saw Blades usually required for other machines of this capacity. This item alone is worthy of consideration, and will in time pay the original cost of the machine.

Price: Machine Complete, £21 : 10 : 0
If without Pump, 19 : 0 : 0

No. 1507½.



Swivel vice adjustable to 45° angle.
Vice jaws, 4⅛ in. high, 5¼ in. wide, 12 in. opening.
Bed of machine, 2 ft. from floor.
Floor space, 44 in × 18 in
One-third dozen 17 in blades free with each machine
Weight, knocked-down and boxed, 670 lb.

This machine, equipped with **"Sterling" Hack Saw Blades,** has cut off a 5 in. round bar of hammered axle steel in less than 30 minutes, also 60 lb steel rails in from 6 to 10 minutes.

The above machine will be found invaluable to manufacturers of crank shafts and gasoline engines for cutting out the solid material to get length of stroke in shaft.

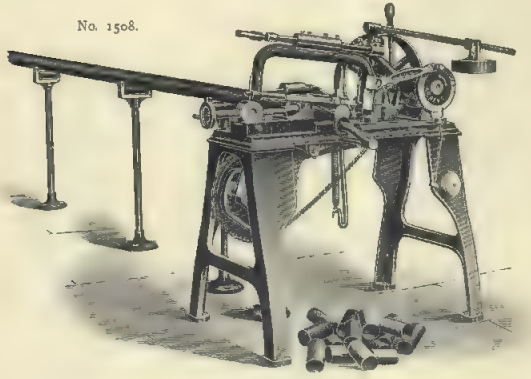
F.O.R. London.

A large and varied Stock of Machines and Tools for Woodworkers.

Automatic Cutting-up Machine.

For Sawing Metal Bars, Tubes, and Sections.

No. 1508.



ADVANTAGES.

1. Provides the **cheapest** means of cutting a number of pieces of metal to one length.
2. **Is entirely self-acting**, and automatically cuts up long bars into pieces of equal length.
3. Alternately **feeds the bar forward and cuts it off.**
4. **Requires no attention** till the entire bar is cut to pieces.
5. **Rings a bell** for attention when the bar is cut up.
6. If the saw-blade breaks the bell rings.
7. **Can be used for single cuts** like an ordinary hack saw. Bell rings on completion of cut.
8. **The Machine cuts Bars, Tubes, Angles, or other Sections** up to 4 in. × ¼ in. It can be used for cutting screwed or polished stock without fear of damage.
9. **Can be worked by unskilled labour.**

Each Machine includes Six Roller Supports, and one dozen Saw Blades.

Price ... . **£19 : 8 : 6** F.O.R. at Works.

For Saw-Blades, see pages 220 and 221.

Net weight, 370 lb. Gross weight, 570 lb. Pulley, 13½ in. dia., 2½ in. wide. Speed, 50 revs. per min.

Contractors to the Home, Indian, and Colonial Governments.

Sterling Silver Table Ware

Martha Washington Pattern. Bright Finish. Illustrations are Exact Size.

Martha Washington Pattern

Bright Finish

		Prices, Per Dozen
6896	Tea Spoons, Medium	$24.00
*6897	Tea Spoons, Heavy	29.25
6898	Tea Spoons, Extra Heavy	35.00
6899	Dessert Spoons, Medium	52.00
6900	Table Spoons, Medium	70.00
6901	Soup Spoons	52.00
6902	Dessert Forks, Medium	52.00
*6903	Table Forks, Medium	70.00
6904	Dessert Knives	56.00
*6905	Table Knives	63.00
6906	Bouillon Spoons	37.75
6907	Butter Spreaders	45.50
6908	Coffee Spoons, Plain Bowl	14 00
6909	Coffee Spoons, Gilt Bowl	16.75
6910	Orange Spoons	49.00
6911	Oyster Forks	29.00
6912	Salad Forks, Individual	56.00

Single Pieces

Forks

		Prices, Each.
6913	Cold Meat Fork, Plain Tines	$ 7.00
6914	Cold Meat Fork, Gilt Tines	8.00
6915	Salad Fork, Serving, Plain Tines	13.25

Ladles

		Each
6916	Cream Ladle, Plain Bowl	$ 4.40
6917	Gravy Ladle, Plain Bowl	9.75

Spoons

		Prices, Each
6918	Berry Spoon, Plain Bowl	$11.75
6919	Berry Spoon, Gilt Bowl	13.25
6920	Olive Spoon, Plain Bowl	3.50
6921	Preserve Spoon, Plain Bowl	8.75
6922	Salad Spoon, Serving, Plain Bowl	13.25
6923	Sugar Spoon, Plain Bowl	3.50
6924	Sugar Spoon Gilt Bowl	4.20

Miscellaneous

		Each
6925	Butter Knife	$ 5.25
6926	Pie Server	6.25
6927	Sugar Tongs	4.40

*Articles Illustrated

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Oak chests of Sterling Silver Table Ware in this pattern, in any combination you desire.

We Will Promptly Replace Any Article Not Exactly as Represented.

"THE HOUSE OF QUALITY"

Sterling Silver Table Ware

William Penn Pattern. Bright Finish. Illustrations are Exact Size.

William Penn Pattern

Bright Finish

		Prices, Per Dozen.
*6928	Tea Spoons, Medium	$24.00
6929	Tea Spoons, Heavy	29.75
6930	Dessert Spoons, Heavy	56.50
6931	Table Spoons, Heavy	71.50
6932	Soup Spoons	53.50
6933	Dessert Forks, Heavy	53.50
*6934	Table Forks, Heavy.	71.50
6935	Dessert Knives	52.50
*6936	Medium Knives	63.00
6937	Bouillon Spoons	36.75
6938	Butter Spreaders	42.00
6939	Coffee Spoons, Plain Bowl	16.75
6940	Coffee Spoons, Gilt Bowl	20.25
6941	Orange Spoons	47.25
6942	Oyster Forks.	36.00
6943	Salad Forks, Indiv dual.	52.50

Single Pieces

Forks

		Prices, Each
6944	Cold Meat Fork, Plain Tines.	$10.50
6945	Cold Meat Fork, Gilt Tines	11.50
6946	Salad Fork, Serving, Plain Tines	16.75

Ladles

		Each.
6947	Cream Ladle, Plain Bowl	$ 4.55
6948	Gravy Ladle, Plain Bowl	12.25

Spoons

		Prices, Each
6949	Berry Spoon, Plain Bowl	$12.60
6950	Berry Spoon, Gilt Bowl	14.00
6951	Olive Spoon, Plain Bowl.	4.55
6952	Salad Spoon, Serving, Plain Bowl	12.25
6953	Sugar Spoon, Plain Bowl.	4.40
6954	Sugar Spoon, Gilt Bowl	5.00

Miscellaneous

		Each
6955	Butter Knife	$ 7.00
6956	Pie Server	8.00
6957	Sugar Tongs	7.60

*Articles Illustrated.

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in combinations of 30 to 105 pieces.

We Are "The House of Quality." You Can Be Sure That Anything You Get From Us is All Right.

Sterling Silver Table Ware

Mary Chilton Pattern, Bright Finish. Illustrations are Exact Size.

Mary Chilton Pattern

Bright Finish

		Prices, Per Dozen
*6771	Tea Spoons, Medium	$24.00
6772	Tea Spoons, Heavy	30.00
6773	Dessert Spoons, Medium	40.00
6774	Table Spoons, Heavy	64.00
6775	Soup Spoons	55.00
6776	Dessert Forks, Heavy	50.00
*6777	Table Forks, Heavy	64.00
6778	Dessert Knives	57 75
*6779	Medium Knives	68.25
6780	Bouillon Spoons	36.75
6781	Butter Spreaders	42.00
6782	Coffee Spoons, Plain Bowl	15.75
6783	Coffee Spoons, Gilt Bowl	19 25
6784	Orange Spoons	47.25
6785	Oyster Forks	31.50
6786	Salad Forks, Individual	52.50

Single Pieces

Forks

		Prices, Each.
6787	Cold Meat Fork, Plain Tines	$ 9.50
6788	Cold Meat Fork, Gilt Tines	10.85
6789	Pickle Fork, Plain Tines	5.25
6790	Salad Fork, Serving Plain Tines	13.25

Ladles

		Each.
6791	Cream Ladle, Plain Bowl	$ 4.80
6792	Gravy Ladle, Plain Bowl	9.50

Spoons

		Prices, Each.
6793	Berry Spoon, Plain Bowl	$11.75
6794	Berry Spoon, Gilt Bowl	13.50
6795	Olive Spoon, Plain Bowl	5.25
6796	Salad Spoon, Serving, Plain Bowl	13.25
6797	Sugar Spoon, Plain Bowl	3.50
6798	Sugar Spoon, Gilt Bowl	4.00

Miscellaneous

		Each
6799	Butter Knife	$ 6.00
6800	Pie Server	8.00
6801	Sugar Tongs	6.25

*Articles Illustrated

We will gladly quote prices on any articles in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in any combinations you desire.

Sterling Silver Table Ware

Victoria Pattern, French Gray Finish. Illustrations are Exact Size.

Victoria Pattern

French Gray Finish

		Prices, Per Dozen
6802	Tea Spoons, Light	$24.00
*6803	Tea Spoons, Medium	29.25
6804	Tea Spoons, Heavy	35.00
6805	Dessert Spoons, Medium	49.00
6806	Table Spoons, Medium	70.00
6807	Soup Spoons	49.00
6808	Dessert Forks, Medium	49.00
6809	Table Forks, Medium	70.00
6810	Dessert Knives	57.75
6811	Medium Knives	68.25
6812	Bouillon Spoons	34.25
*6813	Butter Spreaders	41.25
6814	Coffee Spoons, Plain Bowl	17.50
6815	Coffee Spoons, Gilt Bowl	20.00
*6816	Orange Spoons	45.50
6817	Oyster Forks	22.75
6818	Salad Forks, Individual	56.00

Single Pieces

Forks

		Prices, Each.
*6819	Cold Meat Fork, Plain Tines	$ 8.00
6820	Cold Meat Fork, Gilt Tines	8.75
6821	Pickle Fork, Plain Tines	4.20
6822	Salad Fork, Serving, Plain Tines	14.00

Ladles

		Each
6823	Cream Ladle, Plain Bowl	$ 3.50
6824	Gravy Ladle, Plain Bowl	9.75

Spoons

		Prices, Each
6825	Berry Spoon, Plain Bowl	$13.25
6826	Berry Spoon, Gilt Bowl	14.50
6827	Olive Spoon, Plain Bowl	4.80
6828	Salad Spoon, Serving, Plain Bowl	14.00
6829	Sugar Spoon, Plain Bowl	3.50
6830	Sugar Spoon, Gilt Bowl	4.00

Miscellaneous

		Each
6831	Butter Knife	$ 7.00
6832	Pie Server	6.25
6833	Sugar Tongs	7.00

*Articles Illustrated.

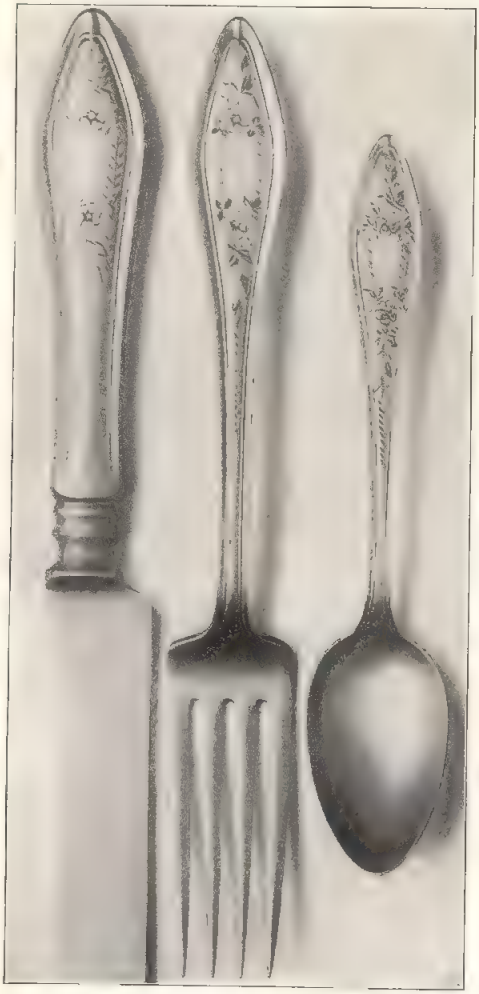
We will gladly quote prices on any articles in this pattern not listed.

Let us quote you on Oak chests of Sterling Silver Table Ware in this pattern, in any combinations you may desire.

All Prices Subject to the Regular Discount, Except Those on Diamonds. Pages 1 to 16.

Sterling Silver Table Ware

Mary Chilton Engraved Pattern, Bright Finish. Illustrations are Exact Size.



Mary Chilton Engraved

Bright Finish

		Prices, Per Dozen.
*6741	Tea Spoons, Medium	$31.00
6742	Tea Spoons, Heavy	37.00
6743	Dessert Spoons, Medium	50.00
6744	Table Spoons, Heavy	77.50
6745	Soup Spoons	65.00
6746	Dessert Forks, Heavy	60.00
*6747	Table Forks, Heavy.	77.50
6748	Dessert Knives	68.25
*6749	Medium Knives	82.25
6750	Bouillon Spoons	43.75
6751	Butter Spreaders	49.00
6752	Coffee Spoons, Plain Bowl	22.75
6753	Coffee Spoons, Gilt Bowl	26.25
6754	Orange Spoons	54.25
6755	Oyster Forks	38 50
6756	Salad Forks, Individual	59.50

Single Pieces

Forks

		Prices, Each
6757	Cold Meat Fork, Plain Tines	$10.35
6758	Cold Meat Fork, Gilt Tines	11.75
6759	Pickle Fork, Plain Tines	6.00
6760	Salad Fork Serving, Plain Tines.	14.35

Ladles

		Each.
6761	Cream Ladle, Plain Bowl	$ 5.50
6762	Gravy Ladle, Plain Bowl	10.75

Spoons

		Prices, Each
6763	Berry Spoon, Plain Bowl	$13 90
6764	Berry Spoon, Gilt Bowl	14.75
6765	Olive Spoon, Plain Bowl.	4.20
6766	Salad Spoon, Serving, Plain Bowl.	14.35
6767	Sugar Spoon, Plain Bowl	4.20
6767X	Sugar Spoon, Gilt Bowl	4.75

Miscellaneous

		Each
6768	Butter Knife.	$ 6 65
6769	Pie Server	9.10
6770	Sugar Tongs	8.00

*Articles Illustrated.

We will gladly quote prices on any articles in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in any combinations you desire.

If Anything You Buy of Us is Not as Represented, Return it Immediately. We Will Thank You for Doing So.

"THE HOUSE OF QUALITY"

Sterling Silver Table Ware

Napoleon Pattern, Bright Finish. Illustrations Are Exact Size.

Napoleon Pattern

Bright Finish

		Prices Per Dozen.
6709	Tea Spoons, Light	$17.50
*6710	Tea Spoons, Medium	23.50
6711	Tea Spoons, Heavy	29.25
6712	Dessert Spoons, Medium.	58.50
6713	Table Spoons, Medium	70.00
6714	Soup Spoons	58.50
*6715	Dessert Forks, Medium	58.50
6716	Table Forks, Medium.	70.00
*6717	Dessert Knives	59.50
6718	Medium Knives	66.50
6719	Bouillon Spoons	33.25
6720	Butter Spreaders	35.00
6721	Coffee Spoons, Plain Bowl	15.00
6722	Coffee Spoons, Gilt Bowl	17.50
6723	Orange Spoons	42.00
6724	Oyster Forks.	24.50
6726	Salad Forks, Individual	52.50

Single Pieces

Forks

		Prices Each
6726	Cold Meat Fork, Plain Tines	$10.50
6727	Cold Meat Fork, Gilt Tines	11.50
6728	Pickle Fork, Plain Tines.	3.50
6729	Salad Fork, Serving, Plain Tines.	10.50

Ladles

		Prices, Each.
6730	Cream Ladle, Plain Bowl	$ 3.50
6731	Gravy Ladle, Plain Bowl	10.50

Spoons

		Prices, Each.
6732	Berry Spoon, Plain Bowl	$13.25
6733	Berry Spoon, Gilt Bowl	14.00
6734	Olive Spoon, Plain Bowl	3.15
6735	Salad Spoon, Serving, Plain Bowl	10.50
6736	Sugar Spoon, Plain Bowl	3.85
6737	Sugar Spoon, Gilt Bowl	4.20

Miscellaneous

		Each.
6738	Butter Knife	$5.25
6739	Pie Server	2.00
6740	Sugar Tongs	3.50

*Articles Illustrated.

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in any combination you desire.

Remember, We Guarantee Everything to be Exactly as Represented or Your Money Back.

"THE HOUSE OF QUALITY"

Sterling Silver Table Ware

Newbury Pattern, Bright Finish. Illustrations are Exact Size.

Newbury Pattern

Bright Finish

		Prices, Per Dozen.
6834	Tea Spoons, Light	$26.00
6835	Tea Spoons, Medium	26.00
6836	Tea Spoons, Heavy	32.00
6837	Dessert Spoons, Heavy	58.00
6838	Table Spoons, Medium	60.00
6839	Soup Spoons	45.00
6840	Dessert Forks, Heavy	58.00
*6841	Table Forks, Medium	70.00
6842	Dessert Knives	52.50
*6843	Medium Knives	63.00
*6844	Bouillon Spoons	31.50
6845	Butter Spreaders	42.00
6846	Coffee Spoons, Plain Bowl	15.75
6847	Coffee Spoons, Gilt Bowl	19.25
6848	Orange Spoons	47.25
*6849	Oyster Forks	35 00
6850	Salad Forks, Individual	52.50

Single Pieces
Forks

		Prices, Each
6851	Cold Meat Fork, Plain Tines	$15.75
6852	Cold Meat Fork, Gilt Tines	17.50
6853	Pickle Fork, Plain Tines	5.25
6854	Salad Fork, Serving, Plain Tines	17.50

Ladles

		Each.
6855	Cream Ladle, Plain Bowl	$ 4.75
6856	Gravy Ladle, Plain Bowl	10.50

Spoons

		Prices, Each.
6857	Berry Spoon, Plain Bowl	$14.00
6858	Berry Spoon, Gilt Bow	15.75
6859	Olive Spoon, Plain Bowl	4.00
6860	Salad Spoon, Serving, Plain Bowl	17.50
6861	Sugar Spoon, Plain Bowl	3.50
6862	Sugar Spoon, Gilt Bowl	4.00

Miscellaneous

		Each.
6863	Butter Knife	$ 5.25
6864	Pie Server	8.00
6865	Sugar Tongs	6.25

*Articles Illustrated.

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak Chests of Sterling Silver Table Ware in this pattern in any combinations you desire.

Sterling Silver Table Ware

Saxon Pattern, French Gray Finish. Illustrations are Exact Size.

Saxon Pattern

French Gray Finish

		Prices Per Dozen.
6866	Tea Spoons, Light	$23.50
*6867	Tea Spoons, Medium	29.25
6868	Tea Spoons, Heavy	35.00
6869	Dessert Spoons, Medium	47.50
6870	Table Spoons Medium	60.00
6871	Soup Spoons	49.50
6872	Dessert Forks, Medium	47.50
6873	Table Forks, Medium	60.00
6874	Dessert Knives	50.75
6875	Medium Knives	57.75
6876	Bouilion Spoons	37.75
6877	Butter Spreaders	36.00
6878	Coffee Spoons, Plain Bowl	15.75
6879	Coffee Spoons, Gilt Bowl	19.25
6880	Orange Spoons	42.00
*6881	Oyster Forks	28.00
*6882	Salad Forks, Individual	47.25

Single Pieces
Forks

		Prices, Each
6883	Cold Meat Fork, Plain Tines	$ 8.40
6884	Cold Meat Fork, Gilt Tines	9.30
6885	Salad Fork, Serving, Plain Tines	13.00

Ladles

		Each.
*6886	Cream Ladle, Plain Bowl	$ 5.00
6887	Gravy Ladle, Plain Bowl	10.25

Spoons

		Prices, Each
6888	Berry Spoon, Plain Bowl	$14.00
6889	Berry Spoon, Gilt Bowl	15.40
6890	Olive Spoon, Plain Bowl	3.15
6891	Salad Spoon, Serving, Plain Bowl	13.00
6892	Sugar Spoon, Plain Bowl	$ 3.85
6893	Sugar Spoon, Gilt Bowl	4.40

Miscellaneous

		Each
6894	Butter Knife	$ 4.75
6895	Pie Server	6.65

*Articles Illustrated.

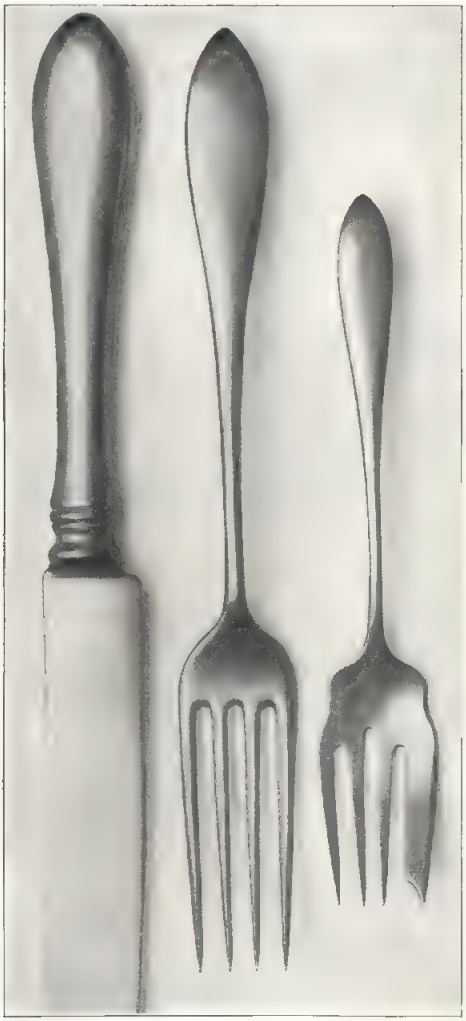
We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in any combination you desire.

If You Are Uncertain About Any of Our Goods, Write Us; We Will Answer Promptly.

Sterling Silver Table Ware

Puritan Pattern, Bright Finish. Illustrations Are Exact Size.



Puritan Pattern

Bright Finish

		Prices, Per Dozen
7023	Tea Spoons, Light	$23.00
7024	Tea Spoons, Medium	29.25
7025	Tea Spoons, Heavy	35.00
7026	Dessert Spoons, Medium	41.75
7027	Table Spoons, Medium	58.50
7028	Soup Spoons	45.00
7029	Dessert Forks, Medium.	40.75
*7030	Table Forks, Medium	58.50
7031	Dessert Knives	52 50
*7032	Medium Knives	59 50
7033	Bouillon Spoons	39.50
7034	Butter Spreaders	37.75
7035	Coffee Spoons, Plain Bowl	15 75
7036	Coffee Spoons, Gilt Bowl .	19 25
7037	Orange Spoons	39.50
7038	Oyster Forks.	30.00
*7039	Salad Forks, Individual	37.75

Single Pieces

Forks

		Prices, Each
7040	Cold Meat Fork, Plain Tines	$ 7.00
7041	Cold Meat Fork, Gilt Tines	8.00
7042	Salad Fork, Serving, Plain Tines.	12.25

Ladles

		Each.
7043	Cream Ladle Plain Bowl	$ 8.85
7044	Gravy Ladle, Plain Bowl	10.00

Spoons

		Prices, Each.
7045	Berry Spoon, Plain Bowl	$13.00
7046	Berry Spoon Gilt Bowl .	14.35
7047	Olive Spoon, Plain Bowl	2.80
7048	Preserve Spoon, Plain Bowl	6.50
7049	Salad Spoon, Serving, Plain Bowl .	11.40
7050	Sugar Spoon, Plain Bowl	3.35
7051	Sugar Spoon, Gilt Bow.	3.85

Miscellaneous

		Each
7052	Bon Bon Scoop, Plain Bowl.	$ 3.15
7053	Bon Bon Scoop, Gilt Bowl .	3.50
7054	Butter Knife.	5.25
7055	Pie Server	7.00
7056	Sugar Tongs	4.55

*Articles Illustrated.

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in combinations of 29 to 222 pieces.

Sterling Silver Table Ware

Rose Pattern, Bright Finish. Illustrations Are Exact Size.

Rose Pattern

Bright Finish

		Prices, Per Dozen.
7057	Tea Spoons, Light	$23.50
*7058	Tea Spoons, Medium	29.25
7059	Tea Spoons, Heavy	35.00
*7060	Dessert Spoons, Heavy	52.75
7061	Table Spoons, Heavy	64.50
7062	Soup Spoons	49.50
7063	Dessert Forks, Extra Heavy	53.00
7064	Table Forks, Extra Heavy	64.50
7065	Dessert Knives	56.00
7066	Medium Knives	63.00
7067	Bouillon Spoons	36.00
7068	Butter Spreaders	34.25
7069	Coffee Spoons, Plain Bowl	16.75
7070	Coffee Spoons, Gilt Bowl	20.25
7071	Orange Spoons	42.00
7072	Oyster Forks	28.00
7073	Salad Forks, Individual	57.75

Single Pieces

Forks

		Prices, Each.
7074	Cold Meat Fork, Plain Tines	$ 8.75
7075	Cold Meat Fork, Gilt Tines	9.75
7076	Salad Fork, Serving, Plain Tines	11.50

Ladles

		Each.
7077	Cream Ladle, Plain Bowl	$ 4.75
7078	Gravy Ladle, Plain Bowl	10.50

Spoons

		Prices, Each
7079	Berry Spoon, Plain Bowl	$13.00
7080	Berry Spoons, Gilt Bowl	14.50
7081	Olive Spoon, Plain Bowl	5.60
7082	Salad Spoon, Serving, Plain Bowl	12.25
7083	Sugar Spoon, Plain Bowl	4.00
7084	Sugar Spoon, Gilt Bowl	4.50

Miscellaneous

		Each.
*7085	Butter Knife	$ 6.65
7086	Pie Server	7.50

*Articles Illustrated.

We will gladly quote prices on any article in this pattern not listed.

Let us quote you on Mahogany or Oak chests of Sterling Silver Table Ware in this pattern, in combinations of 29 to 222 pieces.

STEVENS RIFLES

FAVORITE

Take Down Single Shot

Should the Lever of the Favorite Rifle Become Loose, Adjust it as Follows: Throw Forward the Lever; a Small Screw will be Seen in the Breech Block Directly Under the Rear of the Barrel; by Turning this Screw Out the Lever will Snap up Harder or by Turning it in it will Lessen the Snap.

22 Inch Half Octagon Barrel; Solid Breech Block; Case Hardened Frame, Single Trigger, Oiled Walnut Stock and Fore-arm, Regular Shot Gun Butt, Rubber Butt Plate, Rocky Mountain Front and Sporting Rear Sights. Weight 4¼ lbs.

	Each
No. 172—22 Caliber, with Automatic Ejector; Shoots 22 SRL 22 LRL and 22 Long Rifle RF Cartridges also BB and CB Caps	$7 50
No. 175—25 Caliber, with Plain Extractor; Shoots 25 Stevens Rim Fire and 25 Short Stevens RF Cartridges	7 50
No. 173—32 Caliber, with Plain Extractor; Shoots 32 SRF and 32 LRF Cartridges	7 50

FAVORITE

Take Down Single Shot

24 Inch Half Octagon Barrel, Solid Breech Block, Case Hardened Frame; Single Trigger; Oiled Walnut Stock and Fore-arm; Regular Shot Gun Butt, Rubber Butt Plate Beach Combination Front and Stevens Leaf and Vernier Rear Sights, Weight 4¼ lbs

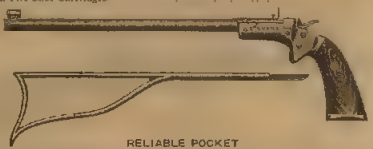
	Each
No. 183—22 Caliber; Shoots 22 SRF, 22 LRF or 22 Long Rifle RF Cartridges, also BB and CB Caps	$12 20
No. 185—25 Caliber; Shoots 25 Stevens Rim Fire and 25 Short Stevens RF Cartridges	12 20
No. 183—32 Caliber; Shoots 32 SRF and 32 LRF Cartridges	12 20

SHOT GUN, FAVORITE

Take Down Single Shot; Automatic Ejector

Bored Smooth for Shot Cartridges; 22 inch Half Octagon Barrel; Solid Breech Block, Case Hardened Frame; Single Trigger; Oiled Walnut Stock and Fore-arm; Regular Shot Gun Butt; Rubber Butt Plate, Open Front Sight Only; Weight 4¼ lbs.

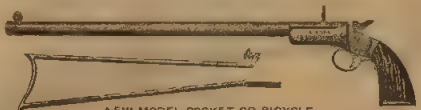
	Each
No. 172S—22 Caliber; Shoots 22 Rim Fire Shot Cartridges	$7 50
No. 173S—32 Caliber; Shoots 32 Rim Fire Shot Cartridges	7 50



RELIABLE POCKET

10 Inch Round Barrel; Octagon Breech, Nickel Plated Frame; Single Trigger, Plain Walnut Stock with Detachable Nickel Plated Skeleton Rest Globe Front and Peep Rear Sights; Weight 1 lb

	Each
No. S2210—22 Caliber; Shoots 22 SRF, 22 LRF or 22 Long Rifle RF Cartridges	$11 20



NEW MODEL POCKET OR BICYCLE

Round Barrel; Octagon Breech; Nickel Plated Frame; Single Trigger; Black Walnut Stock with Detachable Skeleton Rest; Nickel Plated; Stevens Combination Globe Front and Stevens Combination Rear Sights, Pocket Models, Weight Varies from 2 to 2¾ lbs According to Length of Barrel

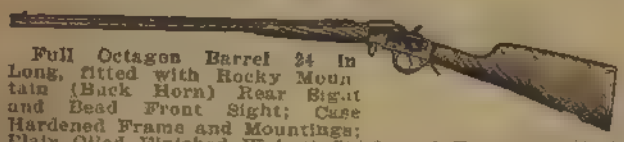
	Each
No. SP2210—22 Caliber; 10 inch Barrel, Shoots 22 SRF, 22 LRF and 22 Long Rifle RF Cartridges	$12 50
No. SP2212—22 Caliber, 12 inch Barrel Shoots 22 SRF, 22 LRF and 22 Long Rifle RF Cartridges	13 50
No. SP2215—22 Caliber; 15 inch Barrel Shoots 22 SRF, 22 LRF and 22 Long Rifle RF Cartridges	15.20
No. SP2218—22 Caliber; 18 inch Barrel; Shoots 22 SRF, 22 LRF and 22 Long-Rifle RF Cartridges	16 90

One in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

SINGLE SHOT RIFLES.

MURDOCK.

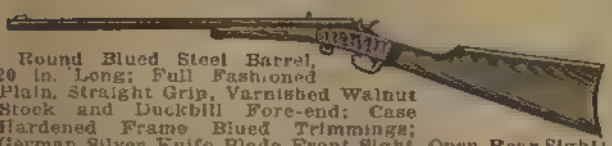


Full Octagon Barrel 24 in Long, fitted with Rocky Mountain (Buck Horn) Rear Sight and Bead Front Sight; Case Hardened Frame and Mountings; Plain Oiled Finished Walnut Stock and Fore-end; Steel Butt Plate; Drop Lever Action; Take-Down Model.

	Each
No. 1022—22 CALIBER; Shoots 22 Short, Long and Long Rifle Rim Fire Cartridges; Weight each about 5¼ lbs.	$8.50
No. 1025—25 CALIBER; Shoots 25 Stevens Rim Fire Cartridges; Weight each about 5¼ lbs.	8.50
No. 1032—32 CALIBER; Shoots 32 Short and Long Rim Fire Cartridges; Weight each about 5¼ lbs.	8.50
No. 1038—38 CALIBER; Shoots 38 S. & W. Center Fire Cartridges; Weight each about 5 lbs.	8.50

One in a Cardboard Box, Ten in a Case; Weight per Case about 60 lbs

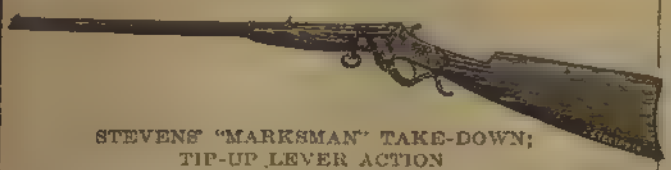
ROYAL JUNIOR* TAKE-DOWN.



Round Blued Steel Barrel, 20 in. Long; Full Fashioned Plain, Straight Grip, Varnished Walnut Stock and Duckbill Fore-end; Case Hardened Frame Blued Trimmings; German Silver Knife Blade Front Sight, Open Rear Sight; Rubber Butt Plate; Drop Block Action; Chambered to take 22 Rim Fire Short, Long, and Long Rifle Cartridges, Length over all 35 in.

	Each
No. RJ22—ROYAL JUNIOR*; Weight each about 3 lbs.	$5.00

One in a Cardboard Box, Fifty in a Case; Weight per Case about 160 lbs.



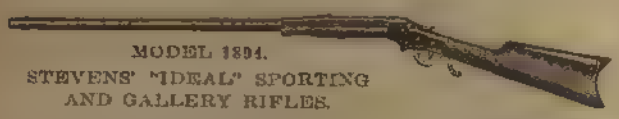
STEVENS' "MARKSMAN" TAKE-DOWN; TIP-UP LEVER ACTION

20 in. Blued Steel Round Barrel; Blued Frame and Trimmings, Plain Varnished Walnut Stock and Fore-end, Rubber Butt Plate; Open Front and Rear Sights; Length over all 36 in.

	Each
No. 1222—22 CALIBER; Shoots 22 Short, 22 Long, and 22 Long Rifle Rim Fire Cartridges	$6.00
No. 1225—25 CALIBER; Shoots Stevens 25 Caliber Rim Fire Cartridges	6.00
No. 1232—32 CALIBER; Shoots 32 Short and Long Rim Fire Cartridges	6.00

Weight Each about 3¼ lbs.

One in a Cardboard Box, Fifty in a Case; Weight per Case about 160 lbs.



MODEL 1894.
STEVENS' "IDEAL" SPORTING AND GALLERY RIFLES.

Half Octagon Blued Steel Barrel; Rifle Butt Plate, Case Hardened; Case Hardened Frame and Mountings, Oiled Walnut Stock and Fore-arm; Rocky Mountain Front and Sporting Rear Sights.

	Each
No. 4422—24 in. Barrel; Shoots BB Caps, 22 Short 22 Long and 22 Long Rifle R. F. Cartridges; Weight each about 7½ lbs.	$14.30
No. 4432—24 in. Barrel; Shoots 32 Short or Long R. F. Cartridges; Weight each about 7¾ lbs.	14.30
No. 4425—24 in. Barrel; Shoots 25 Stevens' R. F. Cartridges; Weight each about 7½ lbs.	14.30
No. 4425 CF—26 in. Barrel; Shoots 25-20 Stevens' C. F. Cartridges; Weight each about 7½ lbs.	14.30

One in a Cardboard Box, Ten in a Case; Weight per Case about 100 lbs.

SINGLE SHOT RIFLES.

STEVENS' RELIABLE POCKET RIFLES.

Round Blued Steel Barrel; Globe and Peep Sights; Nickel Plated Detachable Shoulder Rest, Frame Nickel Plated; Plain Walnut Stocks.

	Each
No. 205—10 in. Barrel; Shoots BB Caps, 22 Short, Long and Long Rifle R. F. Cartridges; Weight each about 1 lb.	$11.20

STEVENS' NEW MODEL POCKET OR BICYCLE RIFLES.

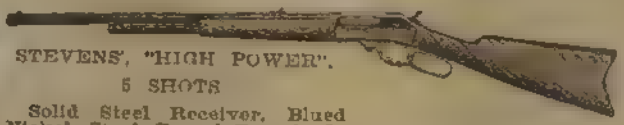
Round Blued Steel Barrel; Stevens Combination Sights; Detachable Shoulder Rest; Nickel Plated Frame and Rest; Plain Walnut Stocks; 22 Caliber Rim Fire; Shoots BB Caps, 22 Short, Long and Long Rifle Cartridges. Total Length 36½ in.

	Each
No. 200—10 in. Barrel; Weight each about 3 lbs.	$12.50
No. 201—12 in. Barrel; Weight each about 2¼ lbs.	13.50
No. 202—16 in. Barrel Weight each about 3½ lbs.	15.20
No. 203—18 in. Barrel; Weight each about 2¾ lbs.	16.90

One in a Cardboard Box.

REPEATING RIFLES.

STEVENS'



STEVENS', "HIGH POWER".
5 SHOTS

Solid Steel Receiver, Blued Nickel Steel Round Barrel, 22 in. Long. The Hammer and Trigger are made of Tool Steel and Oil Tempered; Has a Coil Main Spring and the Firing Pin is in Two Parts, Fitted with White Blade-pattern Front Sight and Sporting Rear Sight, Stock is Handsomely Finished Walnut, with Steel Checkered Butt Plate.

	Each
No. 425/25—25 R. A. L. CALIBER; Weight each about 7 lbs.	$30.00
No. 425/30—30 R. A. L. CALIBER; Weight each about 7 lbs.	30.00
No. 425/35—35 R. A. L. CALIBER; Weight each about 7 lbs.	30.00

One in a Cardboard Box; Ten in a Case, Weight per Case about 110 lbs.

STEVENS' VISIBLE LOADING.

The Visible Loading Feature is New and Very Simple. The Cartridge is always in sight while being fed into the Chamber.

Round Blued Steel Barrel; Rubber Butt Plate; Case Hardened Frame; Varnished Stock and Slide Handle, Bead Front and Sporting Rear Sights.

Chamber for 22 Long Rifle Cartridges; Will also take 22 Short and 22 Long Cartridges.

The Magazine will Hold 15-22 Short, 12-22 Long or 22 Long Rifle Rim Fire Cartridges.

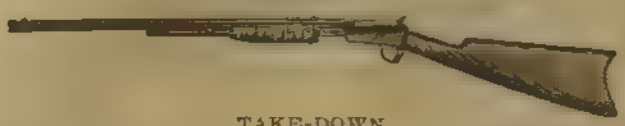
	Each
No. 70—20 in. Barrel; Length over all 35 in.; Weight about 4¾ lbs.	$11.50

One in a Cardboard Box; Twenty-five in a Case; Weight per Case about 125 lbs

Cleaning Rods Furnished with all Rifles Shown on this Page

REPEATING RIFLES.

MARTIN.



TAKE-DOWN

22 Caliber, with 28 in. Octagon Blued Steel Barrel; Black Walnut Stock and Fore-arm, the Fore-arm Cross Scored.

Takes Down by simply unscrewing the Thumb Screw on the Right Side of Receiver; The Action Parts are Removable without Tools, and Barrel can be cleaned from both ends.

The Butt Stock is 13½ in. Long, with 15/16 in. Drop at Comb and 2¾ in. Drop at Heel, Length over all 40 in., when taken down 26½ in.

Fitted with Ivory Bead Front and a Special Adjustable Rear Sight; The Upper Tang of Receiver is Drilled and Tapped so that if desired you can fit any Standard Make of Peep Sight.

Magazine Holds 15-22 Short, 12-22 Long or 11-22 Long Rifle Rim Fire Cartridges, and will SHOOT EITHER OR ALL WITHOUT CHANGE IN ADJUSTMENT.

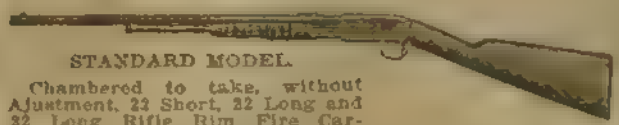
	Each
No. M22—Shoots 22 Short, 22 Long or 22 Long Rifle Cartridges; Weight each about 4 lbs. 11 oz.	$17.50

Twenty in a Case; Weight per Case about 120 lbs.

REMINGTON.

TAKE-DOWN, 22 CALIBER, HAMMERLESS.

Blued Steel Barrel; Solid Breech; Blued Frame; Side Ejector; Corrugated Walnut Fore-arm; Equipped with Safety to prevent Accidental Discharge; Open Sights.



STANDARD MODEL.

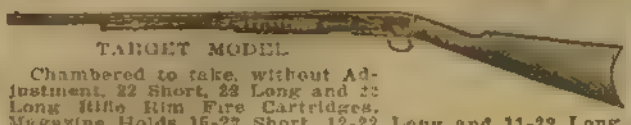
Chambered to take, without Adjustment, 22 Short, 22 Long and 22 Long Rifle Rim Fire Cartridges; Magazine Holds 14-22 Short, 11-22 Long and 10-22 Long Rifle Cartridges.

	Each
No. R22—22 IN. ROUND BARREL; Straight Grip; Walnut Stock, Rubber Butt Plate; Weight each about 4½ lbs.	$16.00

GALLERY SPECIAL.

Chambered for 22 Short Rim Fire Cartridges Only; Magazine Holds 15-22 Short Cartridges.

No. R22GS—24 IN. OCTAGON STEEL BARREL, Pistol Grip; Walnut Stock; Steel Rifle Butt Plate; Weight each about 5½ lbs.	Each $20.00



TARGET MODEL.

Chambered to take, without Adjustment, 22 Short, 22 Long and 22 Long Rifle Rim Fire Cartridges. Magazine Holds 15-22 Short, 12-22 Long and 11-22 Long Rifle Cartridges.

No. R22T—24 IN. OCTAGON STEEL BARREL, Straight Grip; Walnut Stock, Steel Rifle Butt Plate; Weight each about 5½ lbs.	Each $20.00

One in a Cardboard Box, Ten in a Case; Weight per Case about 90 lbs.

REMINGTON AUTOLOADING RIFLE, TAKE-DOWN

A 5 SHOT AUTOMATIC or Self-Loading, Take-Down, Hammerless Rifle; Box Magazine; Blued Barrel and Trimmings, Plain Oil Finished Walnut Stock and Fore-arm, not Checkered; Rubber Butt Plate.

The Barrel is Round, 22 in. Long, and is Fitted with Sporting Rear and Bead Front Sights.

	Each
No. A35—35 R. A. L. CALIBER. Weight each about 7½ lbs.	$42.00
No. A30—30 R. A. L. CALIBER. Weight each about 7½ lbs.	42.00
No. A22—25 R. A. L. CALIBER. Weight each about 7½ lbs.	42.00

Ten in a Case; Weight per Case about 115 lbs.

REPEATING RIFLES.

REMINGTON—U. M. C.

6 SHOTS; HIGH POWER RIFLE, PUMP ACTION, TAKE-DOWN, HAMMERLESS.

A Solid Wall of Steel between the Firing Chamber and the Shooter's Face, always affords Protection from Blow Backs or Defective Ammunition and keeps Mechanism [illegible]

Light Recoil; Simple Action; Take-down Strong and Simple.

Solid Breech Lock close to head of Cartridge and Accurate [illegible] and Blued Barrel [illegible] and Regularity. New Form Spiral Magazine prevents Bullet in Magazine from coming in contact with Primer of next Cartridge ahead; Recoil Lock prevents opening Breech until Cartridge in Chamber has exploded.

Is Hammerless, and has Three Distinct Devices to prevent Firing Pin from exploding Cartridge until arm is fully locked.

Special Ordnance Steel Round Barrel, 22 in. Long; American Walnut Half Pistol Grip; Shot Gun Style Rubber Butt Plate.

Patented No. 1 Quick Adjustable Buckhorn Rear Sights. New Design Copper Bead Front Sight; Rear Sight may be Adjusted with Gun at Shoulder; also has Point Blank Adjustment.

	Each
No. RP25—Shoots .25 Remington Rimless.	$28.70
No. RP30—Shoots .30 Remington Rimless.	28.70
No. RP32—Shoots .32 Remington Rimless.	28.70

Weight Each about 6½ lbs.

Ten in a Case; Weight per Case about 95 lbs.

SINGLE SHOT RIFLES.

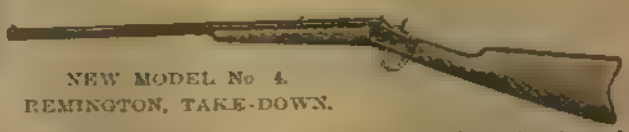
REMINGTON

REMINGTON SPECIAL TAKE-DOWN RIFLE.

Round Blued Steel Barrel 26 in. Long; Plain Oil Finished Walnut Stock and Fore-arm, Case Hardened Frame and Mountings; Plain Blued Steel Butt Plate; Open Front and Rear Sights and Adjustable Rear Peep Sights.

	Each
No. 22S—22 CALIBER; Shoots 22 Short and Long R. F. Cartridges; Weight each about 3½ lbs.	$4.70
No. 32S—32 CALIBER; Shoots 32 R. F. Cartridges; Weight each about 3¾ lbs.	4.70

One in a Cardboard Box, Ten in a Case; Weight per Case about 50 lbs.



NEW MODEL No. 4.

REMINGTON, TAKE-DOWN.

Octagon Blued Steel Barrel; Oiled Walnut Stock and Fore-arm; Case Hardened Frame and Mountings, Plain Blued Steel Butt Plate; Open Front and Rear Sights.

	Each
No. 422—22½ in. Barrel, Shoots 22 CALIBER Short and Long Rim Fire Cartridges; Wgt. each abt. 4¼ lbs.	$8.50
No. 432—24 in. Barrel; Shoots 32 CALIBER Short and Long Rim Fire Cartridges; Wgt. each abt. 4¼ lbs.	8.50

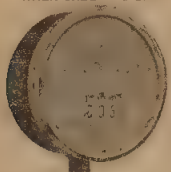
One in a Cardboard Box, Ten in a Case; Weight per per Case about 65 lbs.

Cleaning Rods Furnished with all Rifles Shown on this P[illegible]

STEWART AUTOMOBILE SPEEDOMETERS

See Preceeding Page for Complete Description

WHEN ORDERING GIVE MAKE MODEL AND YEAR OF CAR, ALSO DIAMETER OF TIRE



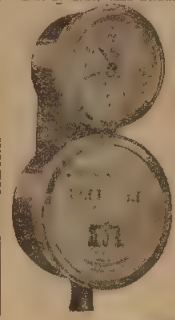
SPEEDOMETER WITHOUT GRADE INDICATOR

Model C. Rotating Dial, 3-inch Dial, 60-Mile Speedometer, 100,000-Mile Season Odometer, 100 Mile Trip Register, without Grade Indicator

	Each
No. CBB—Black and Brass	$30 75 25 00
No. CBN—Black and Nickel	30 75 25 00

Model C-2. Rotating Dial, 3-inch Dial, 100-Mile Speedometer 100,000-Mile Season Odometer 100-Mile Trip Register, without Grade Indicator

	Each
No. C2BB—Black and Brass	$44 00 30 00
No. C2BN—Black and Nickel	44 00 30 00



SPEEDOMETER WITH CLOCK WITHOUT GRADE INDICATOR

Model C-1 Rotating Dial, 3-inch Dial, 60-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, without Grade Indicator-Combined with 2¼-inch Stewart 8-Day Run Wind Clock (not Run Set); no Electric Light.

	Each
No. C1BB—Black and Brass	$58 75 40.00
No. C1BN—Black and Nickel	58 75 40.00

Model C-3. Rotating Dial, 3-inch Dial, 100-Mile Speedometer, 100,000-Mile Season Odometer 100 Mile Trip Register, without Grade Indicator, Combined with 2¼-inch Stewart 8-Day Run Wind Clock (not Run Set), No Electric Light

	Each
No. C3BB—Black and Brass	$66 00 45.00
No. C3BN—Black and Nickel	66 00 45.00

SPEEDOMETER WITH POINTER

Model 28. Pointer Type, 3-inch Dial, 60-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, without Grade Indicator

	Each
No. 28BB—Black and Brass	$28 40 20.00
No. 28BN—Black and Nickel	28 40 20.00

TRUCK AND ELECTRIC VEHICLE SPEEDOMETER

Model E Rotating Dial, 7-inch Dial, 30 Mile Speedometer, 100,000-Mile Season Odometer, 100 Mile Trip Register, without Grade Indicator. Suitable for Either Electrics or Motor Trucks.

	Each
No. EBB—Black and Brass	$38 75 25 00
No. EBN—Black and Nickel	38 75 25 00

All Packed in Wood Cases. Weight per Case about 15 lbs.

STEWART MOTORCYCLE SPEEDOMETERS

A Speedometer Designed Expressly for Motorcycle Use. The Same Beautiful Workmanship, the Same High Grade Materials and Simple Construction that are Embodied in the Stewart Automobile Speedometers.

The Instrument is Absolutely Accurate and Steady at all Speeds on the Roughest Roads. The Odometer is the Same Odometer as Used in the Automobile Instrument—Positive Drive—No Possibility of the Discs Slipping or Registering Inaccurately. There is a Season Odometer with Capacity of 100,000 Miles and Repeat. Trip Register of 100 Miles which can be Reset to any Tenth of a Mile.

The Instrument is Protected with a Metal Shield over the Glass Dial, with Openings Through which the Speedometer and Odometer are Read. An Excellent Protection Against Accident.

The Driving Equipment. There is but One Safe, Practical Method for Driving a Speedometer on a Motorcycle and that is, by means of Belt and Pulleys from Front Wheel—a Method that we have Thoroughly Tested and which has Proved the Most Satisfactory and Durable of all Methods. The Movement of the Spring Fork must be Provided for, and this Movement cannot be Properly Taken Care of by Means of an Ordinary Flexible Shaft. The Belt Drive is Simple—Nothing to get Out of Order, and once Installed, it Can be Forgotten. The Speedometer is to be Installed on the Mudguard or Extension Spring as Shown in the Illustration, where it can be most Easily Read from the Drivers' Seat. In this Position it is Out of Harm's Way and is at All Times in Proper Alignment to the Driving Equipment, while on the Handle Bar it is Being Continually Whipped from one Side to the other, Imposing a Constant and Needless Strain on the Driving Apparatus.

Each

No. D—Rotation Dial, 3-inch Dial, 75-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, without Grade Indicator. Front Wheel Double Belt Drive $17 60 12 00

State Make of Motorcycle when Ordering

"DIAMOND EDGE IS A QUALITY PLEDGE"

STEWART AUTOMOBILE SPEEDOMETERS

WITH GRADE INDICATORS

Magnetic Principle

It comprises an Exceedingly Simple Mechanism, a Circular Permanent Magnet that is Caused to revolve at a Speed Having a Definite Ratio with the Speed of the Automobile Wheel. Surrounding this Magnet, but not Touching it, is an Alloy Cup. This Cup with its Pivot, is mounted in Jewel Bearings to Reduce Friction to the Minimum, and Make Lubrication unnecessary. As the Magnet Revolves, lines of force Cut this Cup and Cause it to be Drawn Around with it, with a Force Proportional to the Speed of the Magnet. The Speed is Read on a Scale Printed on this Cup.

Important Features

The Grade Indicator is an exclusive Feature, and can be Obtained with no Other Speedometer. The Use of the Grade Indicator will Teach the Driver just what to Expect and what not to Expect from his car, telling him when to Use Gears in climbing Hills. It tells him Proper Spark Position, what to expect in the way of Power and Speed with Ascending Grades, and in many other ways helps to get Maximum efficiency out of the car.

The Odometer is a Plain, Hard Reduction Gear Train, Positively Driven, each Wheel Positively Locked into its Proper Position—no possibility of the Dials Slipping—no failure to Register the Correct Mileage—no Lubrication Required. A Big, Sturdy, costly Mechanism that will run 10,000,000 miles and still be Serviceable. The Season Odometer Registers 100,000 Miles and Repeats. The Trip Odometer Registers 100 Miles and can be Rapidly Reset at any Time to any Tenth of a Mile.

The Stewart Drop Forged Swivel Joint is also an Exclusive Feature. Satisfactory Service of Speedometer and Equipment Depends Greatly Upon the Swivel Joint, which Eliminates the Need of Sharp Bends in the Flexible Shaft, and takes up all Movement of the Road Wheel when Steering. The Stewart Drop Forged Swivel Joint will Outwear any Car to which it is attached.

The Flexible Shaft can be tied into a Knot without Breaking. The Inner and Outer Walls are of Special Steel Wire. The Driving Core is of Steel Links, one Hooked into the Other—the Strongest and Most Durable Flexible Shaft Supplied with any Speedometer.

The Road Wheel Gear is of Heavy Cast Steel, with Milled Teeth of Broad Profile, that will not Cut the Driving Pinion. This Gear is Positively Noiseless.

TACHOMETER SPEEDOMETER

Model A. Rotating Dial, 4-in. Dial, 60-Mile Speedometer, 100,000 Mile Season Odometer, 200-Mile Trip Register, Micrometer Regulator, Electric Light. Each

No. ABB—Black and ... Brass $82 50 75 00

No. ABN—Black and ... Nickel 82 50 75 00

Model A-2. Rotating Dial, 4-in Dial, 100 - Mile Speedometer, 100,000-Mile Season Odometer, 200-Mile Trip Register Micrometer Regulator, Electric Light. Each

No. A2BB—Black and.... Brass $92 50 75 00

No. A2BN—Black and ... Nickel 82 50 75 00

SPEEDOMETER WITH GRADE INDICATOR

Model B. Rotating Dial, 4-inch Dial, 60 Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, Grade Indicator, No Electric Light. Each

No. BBB Black and. ... Brass. $55 00 50 00

No. BBN - Black and ... ... Nickel ..55 00 50 00

If Wanted with Electric Light add . . . 5 50 5 00

Model B-2. Rotating Dial, 4-inch Dial, 100-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, Grade Indicator, No Electric Light Each

No B2BB Black and Brass $60 50 55.00

No. B2BN Black and Nickel . . . 60 50 55.00

If Wanted with Electric Light, add 5 50 5 00

When Ordering Give Make, Model and Year of Car; Also Diameter of Tire.

TACHOMETER SPEEDOMETER WITH CLOCK

Model A-1. Rotating Dial, 4-inch Dial, 60-Mile Speedometer, 100,000 Mile Season, Odometer, 200-Mile Trip Register, Micrometer Regulator, Combined with No. 1 Seth Thomas 8-day 7-Jewel Rim Wind, Rim Set Clock, Electric Light Each

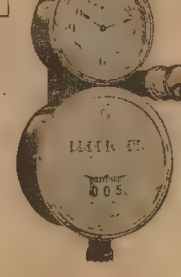
No. A1BB—Black and Brass $137 50 125 00

No. A1BN—Black and Nickel 137 50 125 00

Model A-2. Rotating Dial, 4-inch Dial, 100-Mile Speedometer, 100,000-Mile Season Odometer, 200-Mile Trip Register, Micrometer Regulator, Combined with No. 1 Seth Thomas 8-Day, 7-Jewel, Rim Wind, Rim Set Clock, Electric Light. Each

No. A2BB—Black and Brass $137 50 125 00

No. A2BN—Black and Nickel 137 50 125 00



SPEEDOMETER WITH GRADE INDICATOR AND CLOCK

Model B1. Rotating Dial, 4-inch Dial, 60 - Mile Speedometer, 100,000 Mile Season Odometer, 100-Mile Trip Register, Grade Indicator, Combined with No. 2 Seth Thomas 8-Day, 4-Jewel Rim Wind, Rim Set Clock, Electric Light. Each

No. B1BB — Black and Brass $98.50 85 00

No. B1BN — Black and Nickel 98 50 85.00

Model B3. Rotating Dial, 4-inch Dial, 100-Mile Speedometer, 100,000 - Mile Season Odometer, 100-Mile Trip Register, Grade Indicator, Combined with No. 2 Seth Thomas 8-Day, 4 Jewel, Rim Wind, Rim Set Clock, Electric Light Each

No. B3BB —Black and Brass.... $90 00 90 00

No. B3BN Black and Nickel 99 00 90 00

Model B-4. Rotating Dial, 4-inch Dial, 100-Mile Speedometer, 100,000-Mile Season Odometer, 100-Mile Trip Register, Grade Indicator, Combined with 2½-inch Stewart 8-Day Rim Wind Clock (not Rim Set), Electric Light. Each

No. B4BB Black and Brass $71 50 65.00

No. B4BN—Black and Nickel .. 71 50 65 00

All Packed in Wooden Cases; Weight per Case about 15 lbs.

STRIKING BAGS.

SIMMONS AMERICAN.

PEAR SHAPE; Special Fine Black Calfskin; Red Welted Seams; Cloth Lined; Metal Ball Swivel Top; Extra Strong and Lively; the best Exhibition Bag that can be made; Equipped with Pure Gum Bladder, Linen Lace and Suspending Cord.

Per Dozen

No. SP10—EXHIBITION 32 in. in Circumference $115.00

NEW STYLE PEAR SHAPE; With Leather Loop, Stitched on. Made of Extra Quality Wapiti Chrome Tan Calf; Light Tan Color, Lined with U. S. Army Shelter Tent Duck; Triple Stitched; Black Welted and Taped Seams; Extra Well Made Throughout; A Strictly Serviceable Bag for Gymnasium and General Round Purposes; Equipped with Pure Gum Bladder, Linen Lace and Suspending Cord

Per Dozen

No. SP11—32 in. in Circumference $114.00

NEW STYLE PEAR SHAPE; With Heavy Leather Loop, Stitched on; Made of Extra Quality Light Brown Kid, Lined with U. S. Army Shelter Tent Duck; Triple Stitched, Black Welted and Taped Seams, Extra Well Made Throughout; Equipped with Pure Gum Bladder; Linen Lace and Suspending Cord; A Very Serviceable Bag.

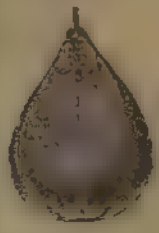
Per Dozen

No. SP12—32 in. in Circumference..... $75.00

NEW STYLE PEAR SHAPE; With Heavy Leather Loop, Stitched on; Made of Fine Quality Black Napa Leather, Drill Lined; Triple Stitched; White Welted and Taped Seams; Equipped with Pure Gum Bladder, Linen Lace and Suspending Cord; Substantially Made.

Per Dozen

No. SP14—Medium Size; 28 in. in Circumference.... $60.00



PEAR SHAPE; Made of Special Wine Tan Leather, Strong Cloth Lining; Triple Stitched, Brown Welted and Taped Seams, Equipped with Pure Gum Bladder, Cotton Lace and Suspending Cord; Very Lively.

Per Dozen

No. SP13—30 in. in Circumference $48.50

BELL SHAPE, Full Size Gymnasium Bag, Made of Extra Quality Chrome Tanned Bathos Calf; Lined with Best Quality Army Duck; Triple Sewed Red Welted and Taped Seams; Reinforced Top and Bottom; Detachable Loop which can readily be replaced when worn; Extra Well Made Throughout; Suitable for All-around, Hard, Rough Usage; Equipped with Pure Gum Bladder, Linen Lace and Suspending Cord

Per Dozen

No. SG1—GYMNASIUM; 32 in. in Circumference $90.00

BELL SHAPE, Laces at Bottom, which add Strength to Ball; No Loop; Suspending Cord passes through Heavy Brass Lined Leather Washer, Double Stitched to Top of Ball; Heavy Cloth Lined, Triple Stitched, Equipped with Pure Gum Bladder, Cotton Lace and Suspending Cord.

Per Dozen

No. SB20 GENUINE NAPA GREEN STOCK, WHITE WELTED; TAPED SEAMS; 30 in. in Circumference..$70.50

No. SB21—FINE OAK TAN LEATHER BROWN WELTED SEAMS; 30 in. in Circumference..... 55.00

No. SB23 GREEN TAN LEATHER TAN SEAMS 28 in. in Circumference..... 30.00

No. SB24 GOLD TAN DRESSED BUCK, PLAIN SEAMS; 28 in. in Circumference..... 30.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs.

STRIKING BAGS.

SIMMONS AMERICAN.

NEW STYLE BELL SHAPE; With Detachable Loop, Made of Fine Napa Brown California Kid, Drill Lined, Triple Stitched; Taped Seams; Equipped with Pure Gum Bladder, Linen Lace and Suspending Cord

Per Dozen

No. SB22—28 in. in Circumference $85.00

One-twelfth Dozen in a Cardboard Box; Weight per Dozen about 12 lbs.

STRIKING BAG BLADDERS.

Per Dozen

No. 7/8P—FOUR-PIECE PURE GUM PEAR SHAPE BLADDER; For Bags Nos. SP10, SP11, SP12, SP13 and SP14; Weight per dozen about 2 lbs..... $18.00

No. 7/8—PURE GUM, FOUR-PIECE BLADDERS; For SG1 and SB20, Weight per dozen about 2 lbs... 16.00

No. 6/8—PURE GUM, TWO PIECE BLADDERS; For Bag No. SB21, Weight per dozen about 1¼ lbs ... 14.50

No. 5/8—PURE GUM, TWO-PIECE BLADDERS For Bags Nos. SB23, SB23 and SB24; Weight per dozen about 1 lb. 12.00

Packed Loose

Never inflate a Bladder with the mouth. The moisture in the breath has a tendency to rot rubber.

We cannot replace Bladders claimed defective under such conditions.

INDIAN CLUBS.

ROYAL'S MAPLE, WAXED; Black Striped; Well Made and Finished.

Nos.	RC½	RC¾	RC1	RC1½	RC2
Wgt. each, lbs.	½	¾	1	1½	2
Per pair	$0.40	.46	.52	.56	.60

Nos	RC2½	RC3	RC4	RC5
Wgt. each, lbs.	2½	3	4	5
Per pair	$0.80	.00	1.20	1.60

DUMB BELLS.

WEIGHT SPECIFIED IS FOR SINGLE BELL. ORDER IN PAIRS.

MAPLE, WAXED Black Striped, Well Made and Finished

Nos.	RB½	RB¾	RB1	RB1½	RB2	RB3	RB4
Wgt. each, lbs.	½	¾	1	1½	2	3	4
Per pair	$0.40	.50	.56	.60	.70	.90	1.20

One Pair in a Paper Package

IRON DUMB BELLS.

JAPANNED

Nos.	½	1	1½	2	2½	3
Wgt. each, lbs.	½	1	1½	2	2½	3
Per lb.	$0.08	.08	.08	.08	.08	.08

Nos.	4	5	6	8	10
Wgt. each, lbs.	4	5	6	8	10
Per lb.	$0.09	.09	.09	.09	.09

Nos.	12	15	20	25	50
Wgt. each, lbs.	12	15	20	25	50
Per lb.	$0.09	.09	.09	.09	.10

ORDER IRON DUMB BELLS SINGLY, NOT IN PAIRS

Packed Loose

INDIAN CLUB AND DUMB BELL HANGERS.

Japanned Sheet Steel, Stamped from One Piece of Metal. Per Dozen Pairs

No. 1—INDIAN CLUB HANGERS; Weight per dozen pairs about 7½ lbs..... $4.00

No. 2—DUMB BELL HANGERS; Weight per dozen pairs about 12½ lbs..... $4.00

Packed Loose

ATHLETIC SWEATERS.

SIMMONS AMERICAN®.

Sizes: 34, 36, 38, 40, 42 and 44 in.

Men's Heavy, Highest Quality, Absolutely Pure Worsted, Shaker Knit; V-Neck, Two Inlet Pockets which will not Sag, Pearl Buttons.

Per Dozen

No. C—OFFICIAL; Solid Colors, WHITE and SILVER GRAY only; Weight per dozen about 24 lbs....$96.00

Sizes: 34, 36, 38, 40, 42 and 44 in.

Men's; Heavy, Absolutely Pure Worsted; Large Close Fitting Shawl Collar, Two Pockets; Pearl Buttons; An Excellent Garment for all around use

Per Dozen

No. A—Solid DARK GRAY COLOR only; Weight per dozen about 22 lbs....$84.00

Sizes: 34, 36, 38, 40, 42 and 44 in.

Men's; Extra Heavy; Shaker Knit; Genuine Shawl Collar; Two Pockets, Pearl Buttons

Per Dozen

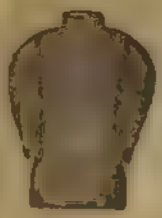
No. B—Solid Colors: WHITE and SILVER GRAY only; Weight per dozen about 24 lbs.....$72.00

Sizes: 34, 36, 38, 40, 42 and 44 in.

Men's; Heavy, Absolutely All Wool; V Neck; Two Pockets; Pearl Buttons

Per Dozen

No. D—Solid Colors: WHITE and SILVER GRAY only; Weight per dozen about 17 lbs.....$54.00



Sizes 34, 36, 38, 40, 42 and 44 in

Men's; Extra Heavy; Shaker Knit, Turtle (Roll) Neck

Per Dozen

No. I—In Solid Colors: WHITE and NAVY BLUE only; Weight per dozen about 24 lbs.....$96.00

Sizes: 34, 36, 38, 40, 42 and 44 in

Men's; Medium Weight; Byron Collar; Two Pockets; Pearl Buttons

Per Dozen

No. G—Solid DARK GRAY Color only; Weight per dozen about 20 lbs..$96.00

Sizes: 34, 36, 38, 40, 42 and 44 in.

Men's; Medium Weight; V Neck; Two Pockets; Pearl Buttons.

Per Dozen

No. H—Two Colors: Solid NAVY, and SILVER GRAY WITH CRIMSON BORDER; Weight per dozen about 20 lbs.....$20.40

One-twelfth Dozen in a Cardboard Box.

ATHLETIC JERSEYS.

SIMMONS AMERICAN®.

Boys' Sizes: 26, 28, 30, 32 and 34 in

Men's Sizes: 34, 36, 38, 40, 42 and 44 in.

Heavy Weight, All Worsted; SOLID COLORS; NAVY BLUE, GRAY and MAROON.

Per Dozen

No. J9B—BOYS' SIZES; Weight per dozen about 8 lbs.....$24.50

No. J9—MEN'S SIZES; Weight per dozen about 10 lbs.....25.00

SOLID COLORS, BLACK, NAVY BLUE, GRAY and MAROON.

Per Dozen

No. J11—MEN'S SIZES; Heavy Weight, Best Quality Worsted; Weight per dozen about 9 lbs.....$33.50

No. J14—MEN'S SIZES; Extra Heavy Weight, Fine Quality Worsted; Weight per dozen about 12 lbs. 43.50

Men's Sizes: 34, 36, 38, 40 and 42 in.

JERSEY COATS.

Heavy Weight, Best Quality Worsted; COLORS NAVY BLUE with Crimson Border and Cuffs; GRAY with Crimson Border and Cuffs

Per Dozen

No. JC 5—MEN'S SIZES; Weight per dozen about 10 lbs.....$53.00

One-sixth Dozen in a Cardboard Box

CAN FURNISH IN ABOUT ONE WEEK'S TIME ANY COLOR COMBINATION WANTED.

ATHLETIC SHIRTS.

SIMMONS AMERICAN®.

Boys' Sizes: 26, 28, 30, 32 and 34 in.

Men's Sizes: 34, 36, 38, 40 and 42 in.

Medium Weight, Cut Worsted.

Per Dozen

No. 900—MEN'S SIZES; Colors, NAVY BLUE and WHITE.....$36.00

No. 900B—BOYS' SIZES; Colors, NAVY BLUE and WHITE.....28.50

Medium Weight, Cotton.

No. 900B—BOYS' SIZES; Colors NAVY BLUE or WHITE.....$8.00

No. 900—MEN'S SIZES; Colors NAVY BLUE or WHITE.....9.00

KNEE TIGHTS.

SIMMONS AMERICAN®.

Men's Sizes: 30, 32, 34, 36 and 38 in.

If any Colors are desired other than those carried in stock regularly, we can furnish on special order, but only in the Worsted Goods. On such orders we require one week's time.

Per Dozen Pairs

No. 604—MEN'S SIZES; Medium Weight Cotton; Color NAVY BLUE.....$9.00

One-half Dozen Pairs in a Cardboard Box; Weight per Dozen Pairs about 7 lbs.

KNEE PANTS.

SIMMONS AMERICAN®.

Sizes: 28, 30, 32, 34 and 36 in.

Per Dozen Pairs

No. R32—SATEEN RUNNING PANTS, Elastic Front, Elastic Back. Colors WHITE and BLACK.....$11.00

One Dozen Pairs in a Cardboard Box; Weight per Dozen Pairs about 2 lbs

"4" Studebaker

Electrically Started
Electrically Lighted
Five-Passenger

Try to Find Another "Four" Like This

We hold fast to our positive convictions concerning this new Studebaker "FOUR."

We are convinced, to begin with, that you will not find another "Four" which compares with it in value.

We are convinced that it will eventually compel those above it in price to give more; and those below it, to charge less.

We believe it will cause more changes in ownership among those who have waited for a higher quality to be brought down to this price than any "Four" which has preceded it.

Studebaker
Detroit, Mich.

This "Four" the Final Word Among Four-Cylinder Cars

This Studebaker "FOUR" has been developed from our experience in building 110,000 "Fours."

Its price, $1050, represents the outside limit of price for a "Four", because no "Four" can give more, in actual value or performance, than this one does.

So its price is right. Its capacity is right. Its power is right. It is the right type—the last word among four-cylinder cars.

Thirteen Timken Bearings

Nothing that we can say here will give you an adequate idea of the power possibilities of this car—or of the things of which it is actually capable.

The long-stroke motor presents the latest approved engineering practice—cylinders cast en bloc, valves enclosed, exhaust and intake manifolds integral.

Thirteen Timken bearings reduce friction and wear to the minimum at every point in the transmission and rear axle and in front wheel hubs.

Its rear axle is of the full-floating type, and completely accessible.

The rear springs are full elliptic, very long and easy, and with the lower member suspended beneath the axle.

Electric Lighting and Starting

It has left-hand steering and central control.

The electrical starting and lighting equipment is the Wagner two-unit system.

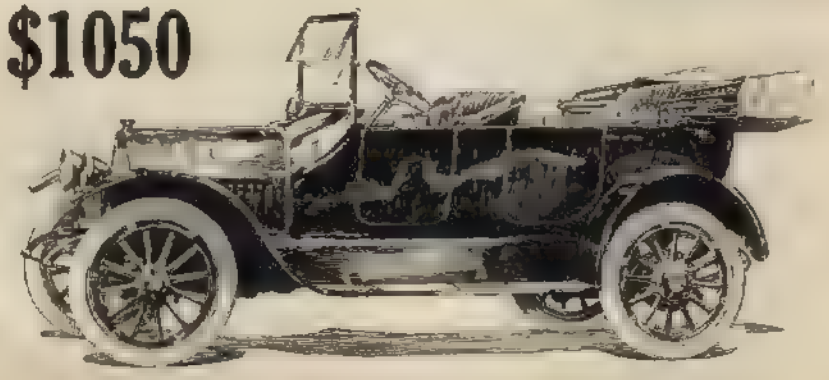
Headlights are Gray & Davis' best quality parabolic lamps.

The windshield is of new design, ventilating, clear vision and rain vision.

Rims are detachable demountable, with one extra rim and tire carriers at the rear.

Electric horn, robe rail and tool box are also furnished with the "Four."

$1050

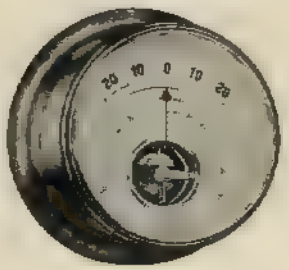


HOYT METERS

ARE CONCEDED TO BE

THE MOST COMPACT PRACTICAL RELIABLE

agency for the promotion of efficiency in connection with the application of electricity to the gasolene car.



Type 22

Ammeters, 15-0-15	$6.00
" 30-0-30	6.50
Voltmeters, 0-10	6.00
" 0-30	7.00

Type 175

Ammeters, 10-0-10	$3.25
" 15-0-15	3.50
" 20-0-20	3.75

Hoyt Electrical Instrument Works, PENACOOK N. H.

STUDENT LAMPS.

Complete with Wicks, Chimneys and Shades.

Brass, Nickel Plated; Glass Reservoir, With Shut-off Oil Valve, Capacity One Pint; Reservoir Receptacle 2¾x7 in.; Diameter of Base 6 in.; Height of Center Rod 20½ in.; 7 in. Ring; No. 1G Student Chimney and No. 1 Perfection Circular Wick; Wick Regulated by Turning Burner.

No. 1½—With No. 37, 7 in. White Dome Shade.....Each, $6.50

No. 1½G—With No. 37, 7 in. Green Dome Shade....Each, $7.00

One Complete Lamp in a Box; Weight Each about 30 lbs.

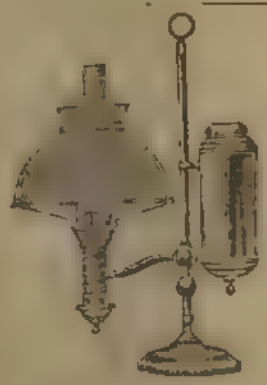
CENTER DRAFT.

Brass, Nickel Plated; Brass Reservoir, with Shut-off Oil Valve, Capacity One Pint; Diameter of Base 6 in., Height of Center Rod 20½ in.; Reservoir Receptacle 2¾x7 in.; Center Draft Burner; 7 in. Ring; No. 3R Rochester Chimney and Circular Wick; Wick Regulated by Turning Thumb Screw.

No. 31—With No. 37, 7 in. White Dome Shade.....Each, $7.20

No. 31G—With No. 37, 7 in. Green Dome Shade.....Each, $7.50

One Complete Lamp in a Box; Weight Each about 30 lbs.



Brass, Nickel Plated; Brass Reservoir, with Shut-off Oil Valve, Capacity One Quart; Diameter of Base 6½ in., Height of Center Rod [illegible] in., Reservoir Receptacle 3 [illegible] in. 10 in. Tripod; No. 2IG Mammoth Perfection Student Chimney and Circular Wick, Wick Regulated by Turning Burner.

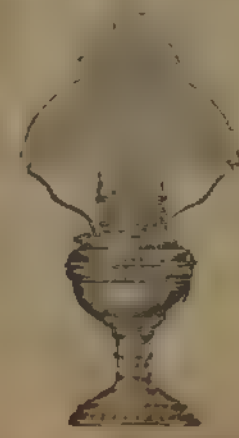
Each

No. 21—With No. 1910, 10 in. [illegible] Iron Stand.....$12.00

No. 21G—With No. 1110, 10 in. [illegible] Dome Shade.....$12.50

One Complete Lamp in a Box; Weight Each about 40 lbs

METAL PARLOR-AND SEWING LAMPS.



CENTER DRAFT.

Brass Body and Burner; Height to Top of Shade 18 in., complete with No. 2R 10 in. Rochester Chimney, No. 710 10 in. White Dome Shade and 10 in. Foliage Tripod; No. 2 Center Draft Burner and No. 2 Rochester Wick; Oil Capacity 1¾ Pints.

Per Dozen

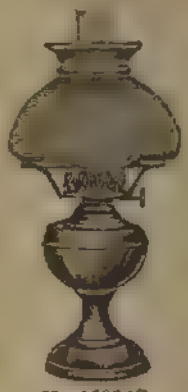
No. 325/C—NICKEL PLATED.$30.00

Weight per Dozen about 70 lbs.

One Dozen in a Wood Box.

WE MAKE NO CHARGE FOR PACKING.

METAL PARLOR AND SEWING LAMPS.



No. 1897/C.

FLAT WICK.

Height to Top of Shade 16¾ in.; Nickel Plated Brass, with Outside Filler; No. 2 Phoenix Nickel Plated Burner, No. 2 Flat Wick, No. 2/SG Chimney; No. 27 7 in. White Dome Shade and Ring; Oil Capacity 1 Pint.

No. 1897/C—COMPLETE, as Shown; Weight per dozen about 70 lbs. Per Dozen $21.00

One Dozen in a Barrel.

No. 1897R—LAMP, Burner, Wick and Ring Only; Weight per dozen about 45 lbs.....Per Dozen, $15.00

One Dozen in a Wood Box.

No. 44½B.

FLAT WICK

Height to Top of Burner 13 in.; Bronze Finished Iron Foot; Polished Brass Body, with Outside Filler; No. 3 Klipper Burner and Wick; We recommend No. 2E Chimney for this Lamp. (NO CHIMNEY INCLUDED.) Oil Capacity 1½ Pints

No. 44½B—POLISHED BRASS BODY, as Shown.....Per Dozen, $21.50

Weight per Dozen about 60 lbs.

One Dozen in a Wood Box.

PARLOR LAMPS.

CENTER DRAFT.

Scientifically Constructed. Liberty Chimney. Consumes Less Oil. Liberty Wick.

Entire Lamp Heavy Brass, Nickel Plated, Cast Iron Bottom Ring, Perforated Bottom Rim to allow Center Draft Circulation. Diameter of Base 6¾ in.; Oil Fount Capacity about 1 Quart, with Outside Filler; Side Ratchet Wick Raiser; No. 1 Belgian Center Draft Burner, No. 1 Liberty Wick and 10 in. Tripod. Extending from the Chimney Collar [illegible] Top which reaches within [illegible] inch of the Flame Spreader, and allows a Small Clearance for the Wick. Beneath the Chimney Collar the Burner Shell is Perforated with Small Holes to allow the Influx of Oxygen into the Mixing Chamber formed by the above-described Cone and lower part of the Burner Shell. Here the Oxygen is heated to the Proper Temperature and readily mixes with the Vaporized Oil and Produces Perfect Combustion; Consequently the Light produced consists of the Maximum Amount of Oxygen and the Minimum Amount of Oil.

The Heat from the Flame immediately causes this Mixture to circulate and rise, as is the case with all rarefied Atmosphere; This causes a Draft, which is expelled between the Wick and extreme top of the Cone; The natural tendency of the Flame would be to form together in the Center, but the Center Flame Spreader prevents this; The Center Draft taken in around the Base and passing through the Stem and Burner, strikes the Flat Surface of the Flame Spreader and, being so much greater in volume than the draft Circulating through the Mixing Chamber, causes the Flame to spread out in a Thin Sheet, producing a Perfect White Flame.

Per Dozen

No. 350—LAMP WITH TRIPOD ONLY; Weight per dozen about 120 lbs.....$31.00

No. 350/C—LAMP COMPLETE WITH No. 1L, 10¾ IN. LIBERTY CHIMNEY AND No. 710 10 IN. OPAL DOME SHADE; Weight per dozen about 180 lbs.....$36.00

One Complete Lamp in a Box

WE MAKE NO CHARGE FOR PACKING.

GENERAL INFORMATION ON GLASS LAMPS.

All Glass Lamps shown on the following pages are full size as described below and will hold the amount of oil as specified. By reference to this table, the oil capacity and size of collar of each size lamp will be found, as well as the size of the Burner, Wick and Chimney required.

Size	00	0	A	B	C	C-SEW	D
Capacity, ounces	16	12	15½	20	35½	35½	31
Size of Collar	0	1	1	2	2	2	2
Size of Burner	0	1	1	2	2	2	2
Wick, Flat	0	1	1	2	2	2	2
Chimney	0	1	1	2	2	2	2

Our line contains a great variety of Patterns composed of Lamps Equipped with Clinched-on, Shrunk-on and Plaster Collars.

CLINCHED-ON COLLARS.

Strong, because each Collar is held against the Lamp while being clinched. The Brass is so constructed that it enters the inside of the Oil Pot, the top overlapping about ¾ in. on the outside of the Lamp. The Brass is expanded under a pressure of about 2,000 pounds to the square inch, which brings it in actual contact with the glass at all points, making an absolutely tight joint through which it is impossible for oil to seep. All weak and imperfect Lamps are crushed in the operation of clinching on the Collars, consequently Lamps equipped with Clinched-on Collars must be perfect. A Clinched-on Collar cannot be pulled off without destroying the Lamp.

SHRUNK-ON COLLARS.

Are made a Fractional Part of an inch Smaller than the Outside Neck of the Lamp and are forced on under Heavy Pressure, and after it is Set in place it is impossible to separate it from the Lamp without breaking the Glass; This style of Collar makes a very neat finish and will not leak.

PLASTER COLLARS.

Are fastened to the glass with plaster of paris. When the latter comes in contact with the glass and hardens, the Collar and Lamp become practically a solid piece. The two corrugations around the side of the Collar form a mould and the Collar is held on in this manner.

DECORATED GLASS LAMPS.

The Decorations used are put on cold and are known as Aniline Colors.

LAMP ASSORTMENTS.

For the benefit of our customers who do not wish to buy an original package of each size we have made up and packed in one package, assortments containing the most desirable styles and sizes and for which the demand is greatest. These assortments are sold complete and we will not break packages unless otherwise specified. This is a great convenience and saving in breakage. By buying in the original packages put up at the factory, the goods reach you in better condition than when opened and repacked.

OPEN STOCK.

Realizing that at times our customers desire to purchase some certain size or sizes of Lamps, we have arranged to carry in open stock the Lamps shown on pages 4200 and 4210, and when ordering separate Glass Lamps suggest that you confine your selection to the ones shown on the above pages.

We especially call your attention to the fact that

WE MAKE NO CHARGE FOR PACKING.

GLASS LAMP ASSORTMENTS.

JUMBO SEWING LAMPS.

CONTAINS ¼ DOZEN EACH OF THE 4 SHRUNK-ON COLLAR EXTRA LARGE SEWING LAMPS SHOWN BELOW, COMPLETE WITH No. 2P SUN BURNERS AND No. 2 FANCY PANEL DESIGN GLOBE SUN CHIMNEYS.

SOLD ONLY IN FULL ASSORTMENTS, EXCEPT No. 1100P.
No. 1100P SOLD SEPARATELY.

12 LAMPS

Per Dozen
No. 1100R—Ruby Foot; Height to Top of Chimney 19¾ in.....$10.00

Per Dozen
No. 1100G—Green Foot; Height to Top of Chimney 19¾ in.....$10.00

Per Dozen
No. 1100M—Marble Color Foot; Height to Top of Chimney 19¾ in....$10.00

Per Dozen
No. 1100P—Plain Crystal Foot; Height to Top of Chimney 19¾ in....$10.00

No. 1100—ASSORTMENT OF 12 LAMPS.. . . . . Per Assortment $11.50

The Lamps in this Assortment are all F Size, the Bases are 7½ in. in Diameter and the Font Capacity is 1 1 3 Quarts; The entire Lamp is Large and Massive and yet Symmetrical; They are extra strong, made of one piece Glass, and are far more Serviceable than the smaller Glass Lamps.

One Complete Assortment in a Barrel; Weight per Assortment about 75 lbs.

WE MAKE NO CHARGE FOR PACKING.

BASE BALL UNIFORMS

*DIAMOND BRAND

We Require at Least Ten Days on all Orders

All Made from the Very Best Material Obtainable in their Respective Grades Especially Woven for Athletic Purposes The Most Desirable Colors have been Selected, which, Combined with the High Standard of Workmanship Enables Us to Guarantee Satisfaction, Special Attention Given to Trimmings and Other Details in Designing.

NOTE.—Uniforms Consist of Shirt, Pants, Cap, Belt and Stockings, but No Shoes; Shoes are Not Included in the Price of Uniforms.

Send for Sample Cards of Flannel and Measurement Blank

In Ordering Uniforms Men on Style Shirt Wanted, whether Button or Lace Front; Style Pants Wanted, whether Plain or Padded, Elastic or Tape Bottom, Style Caps, Stockings, Color. When not Otherwise Specified We will Send Button Front Shirt and Plain Pants with Elastic Bottoms.

AMERICAN LEAGUE

Colors: White, Pearl Gray, Yale Gray, Silver Gray, Black, Maroon, Navy Blue, Brown and Green Scotch Gray with Narrow Black Stripe and Scotch Gray with Narrow Green Stripe.

Shirt; Any Style **Pants;** Any Style **Belt;** 2½ inch Worsted Strap, Leather Lined, Single Buckle or No. 6 Bridle Leather **Cap;** Any Style **Hose;** Heavy Ribbed Worsted Plain or 4 inch Fancy Color Band

	Per Uniform
No. 00—Made of Finest Quality All Wool 14 oz. Athletic Flannel, Thoroughly Shrunk, Made to Measure, Full Size and with Sufficient Allowance in all Directions for Freedom of Movement.	$27 50
When Ordering Nine or More Uniforms	25 50

Prices Include Name of Club or Monogram, or One 8 inch Old English Letter on Shirt. No Extra Charge for Detachable Sleeves, or One Letter on Sleeve or Monogram on Sleeve Instead of on Shirt.

LEAGUE

Colors: White, Pearl Gray, Yale Gray, Scotch Gray, Brown, Cardinal, Navy Blue, Seal Brown, Green, Scotch Gray with Narrow Black Stripe and Scotch Gray with Narrow Green Stripe.

Shirt; Any Style **Pants;** Any Style **Belt;** 2½ inch Worsted Leather Reinforced, Single Harness Buckle or No. 6 Bridle Leather **Cap;** Any Style **Hose;** Heavy Ribbed Worsted, Plain or Striped

	Per Uniform
No. 10—Made of Finest All Wool 14 oz. Athletic Flannel, Thoroughly Shrunk, Made to Measure, Full Size and Weight with Sufficient Allowance for Freedom of Movement	$22 00
When Ordering Nine or More Uniforms	19 80

Price Includes Name of Club, or One 8 inch Plain or Old English Letter on Shirt; or One Letter on Sleeve or Monogram on Sleeve Instead of on Shirt.

UNIVERSITY

Colors: White, Pearl Gray, Yale Gray, Scotch Gray Harvard Mixed, Cardinal, Navy Blue, Seal Brown, Green, Scotch Gray with Narrow Black Stripe and Scotch Gray with Narrow Green Stripe.

Shirt; Any Style **Pants;** Any Style **Belt;** 2½ inch Worsted Strap, Leather Reinforced, Single Buckle or No. 6 Bridle Leather **Cap;** Any Style. **Hose;** Heavy Ribbed Worsted; Plain or Fancy Band Stripe

	Per Uniform
No. 11—Made of Best Quality All Wool 14 oz. Flannel, Thoroughly Shrunk, Made to Measure; Full Size and Weight with Sufficient Allowance for Freedom of Movement	$31 00
When Ordering Nine or More Uniforms	18 15

Price Includes Name of Club on Front of Shirt, or on Sleeve Instead of Front of Shirt.

PROFESSIONAL

Colors: White, Pearl Gray, Blue Gray, Yale Gray, Harvard Mixed, Cardinal, Navy Blue, Seal Brown and Green

Shirt; Any Style. **Pants,** Plain or Lined. **Belt;** 2½ inch Worsted Web, Single Harness Buckle or 1¼ inch Solid Leather **Cap;** Any Style. **Hose;** Heavy Worsted, Plain Colors or with One 4 inch Stripe on Calf.

	Per Uniform
No. 12—Made of 12 oz. All Wool Athletic Flannel, Made to Measure, Full Size and with Sufficient Allowance in all Directions; Guaranteed to Give Best of Service	$18 15
When Ordering Nine or More Uniforms	16 50

Price Includes Name of Club on Shirt, not to Exceed Ten Letters, or One 6 inch Plain or Old English Letter, or Letter or Monogram on Sleeve instead of on Shirt.

EXTRAS

	Each
Letters and Monograms on Sleeves when Furnished in Addition to Name on Shirt, from 20 to 50 cents Each	
Felt Letters on Caps	$2 20

COLLEGE

Colors: White, Pearl Gray, Blue Gray, Yale Gray, Harvard Mixed, Cardinal, Navy Blue, Seal Brown and Green

Shirt; Any Style **Pants,** Plain or Lined **Belt,** 2½ inch Worsted Web, Single Buckle **Cap;** Any Style **Hose;** Heavy Ribbed Worsted Plain or One Stripe on Calf

	Per Uniform
No. 13—Made of Good Quality 8 oz. All Wool Flannel, Made in Same High Grade Manner as Our Best Grades and Guaranteed to Give Satisfaction	$14 50
When Ordering Nine or More Uniforms	13 20

Price Includes Name of Club, not to Exceed Ten Letters, or One 6 inch Plain or Old English Letter on Shirt.

EXTRAS

	Each
Felt Letters on Caps	$2 20

CITY LEAGUE

Colors: White, Pearl Gray, Yale Gray, Harvard Mixed, Cardinal, Navy Blue, Seal Brown and Green.

Shirt; Any Style **Pants,** Any Style **Belt,** 2½ inch Worsted Web, Single Harness Buckle or No. 6 Bridle Leather. **Cap;** Any Style **Hose;** Heavy Weight Cotton, Plain Ribbed Stitch or Fancy Band Stripe

	Per Uniform
No. 13X—Made of Good Quality All Wool Flannel, and Made in the Same High Grade Manner as Our Best Grades, and Guaranteed to Give Satisfaction	$13 00
When Ordering Nine or More Uniforms	9 90

Price Includes Name of Club on Front of Shirt, or on Sleeve Instead of Front of Shirt.

"DIAMOND EDGE IS A QUALITY PLEDGE"

READY MADE BASE BALL UNIFORMS

*DIAMOND BRAND

Shipment Guaranteed Same Day that Order is Received

Price on These Uniforms Includes Shirt, Pants, Cap, Belt and Stockings.

Be Sure to Give Chest Measurement and Size of Cap Wanted.

These Uniforms are Furnished Only as Described. Positively No Changes Can be Made.

When Ordering Uniforms, Give Color Number, Chest Measurement and Size of Cap Wanted Only.

CLUB SPECIAL

The Club Special Uniform has Proven to be the Most Popular on the Market and Compares Favorably with any Uniform at the Price. The Material Used is a Mixture of Wool and Cotton, thus Combining Strength, Comfort and Appearance.

DESCRIPTION

Shirts.—Cut on Our Regular Custom Made Uniform Pattern. Has Yoke on Shoulders. Military Collar with Fancy Braid Trimming. Button Front. Sleeves Made Elbow Length with Fancy Color Band.

Pants are Made up Very Strong Where Mostly Needed. Cut Wide at Hips. Full Length. Are Drilled Lined, and Has Fancy Colored Cord on Outside of Seam. Elastic Bottom. Belt Loops and Hip Pocket.

Caps are Boston Style with Fancy Color Corded Seams. Regular Professional Design with Sweat Band. Stitched Visor.

Belts Made of Good Heavy Harness Leather 1¼ inches Wide with Plated Buckle and Loop.

Stockings—The Stockings Furnished with Our Club Special Uniforms are Heavy Ribbed Cotton with White Feet and One 3-inch Fancy Colored Band.

Lettering.—We Do Not Letter These Uniforms. Extra Letters in Plain Block Style, 2½ inches Long. Colors: Navy Blue, Maroon or Green with Adhesive Rubber Back, carried in Stock. Each 3c Net.

No. 750—Sizes 28 to 42 inch Chest Measurement. Average Weight per Uniform 2½ lbs. $6 00

COLOR No. A
White with Narrow Black Stripe
Pants—Black Corded Seams.
TRIMMINGS
Cap—Black Corded Seams.
Belt—Black Leather.
Stockings—Black with White Band.

COLOR No. B
Light Brown with Narrow Green Stripe
TRIMMINGS
Pants—Green Corded Seams.
Cap—Green Corded Seams.
Belt—Russet Leather.
Stockings—Gray with Green Band.

COLOR No. C
Gray with Narrow Green Stripe
TRIMMINGS
Pants—Green Corded Seams.
Cap—Green Corded Seams.
Belt—Black Leather.
Stockings—Gray with Green Band.

COLOR No. D
Gray with Broad Maroon Stripe
TRIMMINGS
Pants—Maroon Corded Seams.
Cap—Maroon Corded Seams.
Belt—Black Leather.
Stockings—Gray with Maroon Band.

CHAMPION

The Champion Uniform is a Most Desirable Garment where Durability and Service are Required. It is Made of a Special Constructed Flannel, Cut on our Major League Pattern and Guaranteed Full Size and Length.

DESCRIPTION

Shirts—Are Made up in Best Workmanship Manner. Cut on our Regular Custom Made Uniform Patterns and Full Length. Has Yoke on Shoulders. Regular Negligee Collar and Button Front. Sleeves are Elbow Length. Professional Cut with Cuffs. Hand Made and a Very Attractive Appearance.

Pants Are Made Up in Splendid Style. Cut Wide at Hips and Long Full Length on our Professional Pattern. Are Drill Lined and Has Fancy Colored Cord on Outside Seam. Elastic Bottom Belt Loops and Hip Pocket.

Caps—Are Boston Style with Fancy Color Corded Seams. Regular Professional Design with Sweat Band.

Belts—Made of Cotton Web, 2¼ inches wide with Leather Strap and Plated Buckle.

Stockings—The Stockings Furnished with our Champion Uniforms are Heavy Ribbed Cotton with White Feet and one 3-inch Fancy Colored Band.

Lettering.—We Do not Letter These Uniforms. Extra Letters in Plain Block Style 2½ inches Long. Colors: Navy Blue and White with Adhesive Rubber Back, Carried in Stock. Each 3 cents Net.

COLOR No. E
Solid Gray
TRIMMINGS
Shirt—Navy Blue Band on Sleeve.
Pants—Navy Blue Corded Seams.
Cap—Navy Blue Corded Seams.
Belt—Navy Blue Web.
Stockings—Navy Blue with Gray Band.

COLOR No. F
Solid Maroon
TRIMMINGS
Shirt—White Band on Sleeves.
Pants—White Corded Seams.
Cap—White Corded Seams.
Belt—White Web.
Stockings—Maroon with White Band.

COLOR No. G
Gray with Black Stripe
TRIMMINGS
Shirt—Navy Band on Sleeves.
Pants—Navy Blue Corded Seams.
Cap—Navy Blue Corded Seams.
Belt—Black Leather.
Stockings—Navy Blue with Gray Band.

COLOR No. H
Solid Navy Blue
TRIMMINGS
Shirt—White Band on Sleeves.
Pants—White Corded Seams.
Cap—White Corded Seams.
Belt—White Web.
Stockings—Navy Blue White Band.

No. 700—Sizes 28 to 42 inch Chest Measurement. Average Weight per Uniform 2½ lbs. . . . . Per Uniform $3 00

AMATEUR

The Amateur Uniform is Without Doubt the Finest Uniform to be had at the Price. The Material Used is a Heavy Twill Weave Flannelette and our Past Experience Convinces us that it is the Very Best that the Mills can Produce for Baseball Uniforms at the Above Low Price.

DESCRIPTION

Shirts—Cut on Our Regular Full Size Patterns, same as our Custom Made Uniforms and Full Length. Has Yoke on Shoulders. Regular Negligee Collar, Button Front. Sleeves are Regular Length Professional Cut.

Pants—Cut on our Regular Full Size Patterns, same as our Custom Made Uniforms and Full Length. Elastic Bottom, Belt Loops and Hip Pocket.

Caps—Boston style, well Lined. Same Color as Shirt and Pants.

Belts—Made of Heavy Duck Web with Leather Strap and Plated Buckle.

Fastener—White Belts are Furnished with Colors J, L and M. Navy Blue Belts are Furnished with Color K.

Stockings—Are Furnished in Black Heavy Ribbed Cotton Only.

Lettering—We Do Not Letter These Uniforms. Extra Letters in Plain Block Style 2½ inches Long. Colors: Navy Blue and White with Adhesive Rubber Back, Carried in Stock. Each 3 cents Net.

Colors

No. J—Solid Maroon
No. K—Solid Drab
No. L—Solid Navy Blue
No. M—Solid Green

Per Uniform

No. 450—Youths' Sizes; 36, 38, 40 and 42 inch Chest Measurement; Average Weight per Uniform 2 lbs. $5 00

No. 400—Boys' Sizes, 28, 30, 32 and 34 inch Chest Measurement. Average Weight per Uniform 2 lbs. 4 00

YOUTHS

The Youths' Uniforms are Made of a Good Grade Flannelette and are Especially Adapted for Boys' and Youths' Baseball Clubs. Juveniles Desiring a Good, Well Made Light weight Uniform could Make no Better Selection.

DESCRIPTION

Shirts—Cut on our Regular Full Size Patterns, same as Our Custom Made Uniforms and Full Length. Has Yoke on Shoulders. Regular Negligee Collar, Button Front. Sleeves are Elbow Length. Colors Nos. N and O have White Collar and Cuffs. Color No. P has Black Collar.

Pants—Cut on our Regular Full Size Patterns, same as our Custom Made Uniforms and Full Length. Elastic Bottom and Belt Loops and Hip Pocket.

Caps—Boston Style, well Lined, Same Color as Shirt and Pants. Colors Nos. N and O have White Visors. Color No. P has Black Visor.

Belts—Made of Heavy, Soft Web. White Belts are Furnished with Colors N and O. Navy Blue Belts are Furnished with Color P.

Stockings Are Furnished in Black. Heavy Ribbed Cotton Only.

Colors

No. N—Solid Navy Blue
No. O—Solid Maroon
No. P—Solid Gray

Per Uniform

No. 300—Youths' Sizes 36, 38, 40 and 42 inch Chest Measurement, Average Weight per Uniform 1¾ lbs. $3 75

No. 250—Boys' Sizes; 28, 30, 32 and 34 inch Chest Measurement, Average Weight per Uniform 1¼ lbs. 3 00

Loose

Send for Sample Cards Showing Samples and Colors of all Grades

BASE BALL CLOTHING

*DIAMOND BRAND

We Require at Least 10 Days on all Orders

Diamond Base Ball Clothing is made up in best Workmanship and Manner Double Seams Reinforced and Stitched with Linen Thread Pants Furnished Plain, Lined or Padded Button Front and Elastic or Tape Bottoms Shirts Double Yoke and Collar Long, Mechanics Sport Sleeves Button or Lace Front

In Ordering Mention Size, Color and Trimmings Wanted

NOTE.—Prices on Coats and Sweater Jackets or for Nine or More in Each Grade; for less Quantities add 10 per cent Net to Prices Given

COATS

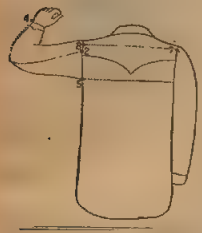
Single or Double Breasted; Sack or Blouse Pattern, this Garment has become very Popular and is Used by all Professional Ball Players, is Tailor Made in Best Workmanship and Manner throughout; Double Stitched and Tape Seams, Collar, Cuffs and Pockets Trimmed with Any Color Desired, Front Trimmed with Large Marine Pearl Buttons; Made up Unlined or Skeleton Style; Monogram or Letter on Top Pocket

	Each
No. 00C—Same Material as No. 00 Uniforms	$18 70
No. 10C—Same Material and Colors as No. 10 Uniforms	16 50
No. 12C—Same Material as No. 12 Uniforms	14 30
No. 14C—Same Material as No. 14 Uniforms	12 10
No. 15C—Same Material as No. 15 Uniforms	11 00

SWEATER JACKETS

	Each
No. 0J—Best All Wool; Extra Heavy Shaker Knit; Colors and Grade to Match Nos. 00 and 10 Uniforms	$13 20
No. 12J—Heavy Wool Colors and Grade to Match No. 12 Uniform	11 00
No. 13J Heavy Wool Colors and Grade to Match No. 14 Uniform	9 90
No. 14J Heavy Wool; Colors and Grade to Match No. 14 Uniform	$7 70
No. 15J—Medium Weight Wool, Colors and Grade to Match No. 15 Uniform	6 60
No. 16J Light Weight Wool Colors and Grade to Match No. 16 Uniform	5 50
No. 17J—Best Merino Yarn; Colors and Grade to Match No. 17 Uniform	4 40

Sample Color Cards and Measurement Blanks Furnished on Application



HOW TO ORDER UNIFORMS

Samples of Flannels and Special Measurement Blanks Mailed to Clubs and Others Interested on Application.

If in a Hurry for Uniforms and no Samples and Measurement Blanks on Hand, Follow the Instructions Given Below; Give us an Idea of Color Desired, and we will Use Our Judgment in Getting up Same. Our Experience for Years Past will Enable us in Most Cases to Make a Better Selection than Parties not Experienced in Selecting Materials and Trimmings for Uniforms.

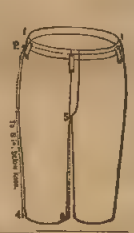
STYLE AND COLORS FOR UNIFORMS

Answer these Questions Fully Before Taking Measurements

1. Uniform No.
2. Style of Shirt and Lettering
3. Color Desired for Letters
4. Color of Belt and Stockings
5. Style and Color of Cap

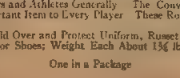
HOW TO MEASURE FOR UNIFORMS

Measure Each Man Separately as Indicated by the Numbers Given and Shown on Diagrams Use this Form as a Copy in Absence of Special Measurement Blanks



Names	SHIRTS: Collar	SHIRTS: Sleeve 2 to 4	SHIRTS: Chest 5 to 5	SHIRTS: Yoke 7 to 8	PANTS: Around Waist, 1 to 1	PANTS: Outseam, 2 to 2	PANTS: Inseam, 3 to 6	PANTS: Around Hips, 7 to 7	Cap, Size	Belts, Size	Hose, Size	Shoes, Size

UNIFORM ROLLS



For Base Ball Players, Bicycle Riders, Tennis Players and Athletes Generally

The Convenient Packing of Uniforms in a Manner that will not Wrinkle and Soil Same and to be Easily Carried is an Important Item to Every Player These Rolls Answer all Requirements.

	Each
No. UC1—Heavy Brown Canvas, with Cloth Flaps to Fold Over and Protect Uniform, Russet Leather Straps and Handles, Made to Carry One Complete Uniform; Separate Compartment for Shoes; Weight Each About 1¾ lbs	$4 40

One in a Package

"DIAMOND EDGE IS A QUALITY PLEDGE"

BASE BALL UNIFORMS

✱ DIAMOND BRAND

We Require at Least Ten Days on All Orders

All Made from the Very Best Material Obtainable in their Respective Grades Especially Woven for Athletic Purposes The Most Desirable Colors have been Selected, which, Combined with the High Standard of Workmanship, Enables us to Guarantee Satisfaction Special Attention Given to Trimmings and Other Details in Designing.

NOTE.—Uniforms Consist of Shirt, Pants, Cap, Belt and Stockings, but no Shoes; Shoes are not Included in the Price of Uniforms. Send for Sample Cards of Flannel and Measurement Blank.

In Ordering Uniforms Mention Style Shirt Wanted, Whether Button or Lace Front, Style Pants Wanted, whether Plain or Padded, Elastic or Tape Bottom, Style Caps, Stockings, Color When not Otherwise Specified, we will Send Button Front Shirt and Plain Pants with Elastic Bottoms.

AMATEUR

Colors: White, Pearl Gray, Blue Gray, Navy Blue, Yale Gray, Harvard Mixed, Maroon, Seal Brown and Green
Shirt; Any Style **Pants,** Plain or Lined and Padded **Belt;** 2½ inch Cotton Web Single Buckle, **Cap;** Any Style. **Hose;** Heavy Ribbed Cotton, Plain or 4 inch Fancy Color Band.

	Per Uniform
No. 16—Made of Good Quality Athletic Flannel, Extra Well Made and will Give Good Service and Satisfaction	$12 10
When Ordering Nine or More Uniforms	11 00

Price Includes Name of Club Not to Exceed Ten Letters or One Old English Letter

EXTRAS	Each
Piped Seams on Cape	$0 20
Felt Letters on Caps	20

ASSOCIATION

Colors: White, Yale Gray, Blue Gray, Scotch Gray, Oxford Brown, Maroon, Navy Blue and Dark Green
Shirt; any Style. **Pants;** Plain or Lined and Padded. **Belt;** 2½ inch Cotton Web **Cap;** Boston, University or College Style. **Hose;** Plain or One Calf Stripe.

	Per Uniform
No. 15—Made of Good Quality 5 ounce Athletic Flannel, Very Strong and Durable; Guaranteed to Give Satisfaction and to Outwear Any Other Make at the Price	$9 70
When Ordering Nine or More Uniforms	8 88

Price Includes Name of Club on Shirt, Not to Exceed Ten Letters, or One 4 inch Plain or Old English Letter.

EXTRAS	Each
Felt Letters on Caps	$0 20
Piped Seams on Caps	20

HIGH SCHOOL

Colors White, Silver Gray, Yale Gray, Gray Mixed, Pearl Gray, Navy Blue, Maroon, Oxford Brown, Green, Black and Tan.
Shirt; Any Style. **Pants;** Plain Lined or Padded. **Belt;** 2½ inch Cotton Web. **Cap,** Boston, University or College Style. **Hose;** Heavy Ribbed Cotton, Plain or 4 inch Fancy Color Band.

	Per Uniform
No. 17—Made of Good Quality Flannel; a Very Desirable and Serviceable Uniform, Well Made	$8 50
When Ordering Nine or More Uniforms	7 70

EXTRAS	
Detachable Sleeves, Per Pair	$0 90
Piped Seams on Caps, Each	20
Felt Letters on Caps	20

CLUB SPECIAL

Colors: White, Oxford Brown, Navy Blue, Light Tan, Dark Gray, Light Gray, Cardinal and Green
Shirt: Any Style **Pants,** Plain Lined or Padded **Belt;** 2½ inch Cotton Web **Cap,** Boston, University or College Style **Hose;** Heavy Cotton Plain or One 4 inch Fancy Band on Leg.

	Per Uniform
No. 18—Made of Flannel Finished Cloth and is a Very Desirable Uniform	$7 30
When Ordering Nine or More Uniforms	6 60

EXTRAS	Each
Piped Seams on Caps	$0 20
Felt Letters on Caps	20

JUNIOR

Colors: White, Oxford Brown, Navy Blue, Royal Blue, Dark Gray, Light Gray, Scarlet, Purple and Green.
Shirt; Button in Front **Pants,** Plain **Cap;** Jockey or College Style **Hose;** Heavy Ribbed Cotton **Belt;** 2 inch Web Single Buckle

	Per Uniform
No. 19—Made of Heavy Flannelette; Well Made and an Excellent Outfit for Boys	$5 70
When Ordering Nine or More Uniforms	5 00

BOYS'

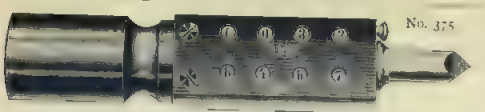
Colors: White, Oxford Brown, Navy Blue, Royal Blue Dark Gray, Light Gray, Scarlet Purple and Green
Shirt, Button in Front **Pants,** Plain **Cap;** Jockey or College Style **Hose;** Heavy Ribbed Cotton. **Belt;** Two inch Web Single Buckle

	Per Uniform
No. 21—Made of Good Flannelette in Boys' Sizes Only, Shirts up to and Including 14 inch Collar, Pants up to and Including 30 inch Waist	$4 85
When Ordering Nine or More Uniforms	4 40

UNIFORMS CARRIED IN STOCK

The Following Numbers of Uniforms are Carried in Stock They will not be Made up to Special Order Made in One Color Only Suit Consists of Shirt, Pants, Cap and Belt, **Does Not Include Stockings or Shoes** We do not Break Packages on these Uniforms It is Necessary to Order One Dozen Suits of Assorted Sizes at One Time. We do not Pick Out Sizes. We Only Sell them Assorted.

	Per Dozen Suits
No. 23—Boys' Sizes; 8 to 14 years, Gray with Navy Blue Collar and Cuffs	$17 60
No. 23—Same as No. 22, Only Made of Better Material	36 40
No. 24—Men's Size; Gray with Navy Blue Collar and Cuffs	36 30



No. 375

The 1912 Speed Indicator.

Gives right and left markings without readjustment.

Price, with Leather Case... 13 -
" without " " ... 12 6

This, the latest improvement on Speed Indicators is, as shown by the illustration above, made with springing figures. The dials for both right and left hand revolutions are, as shown, on the same side, the top line indicating the right hand revolutions and the bottom line the left hand revolutions. It is a great improvement, and is as perfect in every way as it is possible to make a Speed Indicator. It is easily set at zero point, and counts up to 10,000. Highly finished, extremely portable, and guaranteed perfectly accurate.

The S and B Indicator.

No. 376.

This Indicator is intended for use in determining the velocity of shafts and spindles running in either direction. It registers on either side, the front side being used to determine the velocity of shafts and spindles running in one direction and the reverse side the speed of those running in the opposite direction. Thus the confusion and errors that arise where all readings are taken from one dial are avoided.

The dials register units and tens by means of a revolving pointer, and, in addition, the front dial registers hundreds up to 5000 by means of a rotating disk in the centre. This disk will register when either side is used.

Price 16/8, with Morocco Cas. 18 9

The Calculex.

No. 377

The Calculex, in the short time it has been on the market, has firmly established itself in the estimation of all who have cause to use a slide rule.

To every engineer into whose hands it has come it has proved an invaluable and indispensable companion.

Wherever it has gained entry it has completely superseded the older types of slide rule, which have, in many cases, been discarded.

For convenience and accuracy it has no rival.

The Calculex will justify all our claims on its behalf if you will but try it, and the book of rules by which it is accompanied (the most complete manual on the use of the slide rule which has yet appeared) will prove of great utility.

ITS ADVANTAGES.

It combines all the advantages of the Slide Rule with those of the Pocket Calculator.

It is only ¼-in. thick, and is very neat and compact.

It may always be at hand, being carried in the waistcoat pocket without the slightest inconvenience.

Being in a circular form, the reading is continuous without any break or end.

The Cursor Lines are very fine and very close to the Dial, and ensure great accuracy in reading.

Most calculations are made with only one setting.

It gives a great range of proportions at each setting all in that ratio.

If the accuracy of the setting is doubtful, it can be referred to at any time.

The scales for inverse proportions are close together, and can be set and read without the Cursor.

Price, complete in Leather Case with instructions, 12/6

Graduated Tyre Wheel.

No. 378.

For measuring lengthy tyres accurately. The circumference of Wheel is exactly two feet graduated by ⅛ of an inch. The pointer is held in place by friction, and can be set instantly.

Cherry Wood Handle, other parts Malleable Iron, polished.

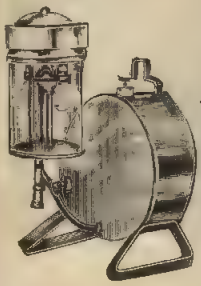
Price 7/6

Bronze Medal, 1884.—Gold Medal, 1890.

THE LIGHT of DAY

has nothing on the Light

This Lamp Produces



It is 800 Candle Power Equal to High Power Arc Light

No. CK8298. The "King Bee" Portable Incandescent Lamp solves the problem of best light for streetmen, concessionaires, traveling auctioneers, medicine men, circuses and all other itinerant merchants, draws big crowds, sells the goods, makes work easy, lasts always, furnishes 800 candle power light equal to any high power electric arc light, requires no wiring, does not flicker, can be picked up and carried away, costs less to operate, burns 10 hours for 5 cents, practically turns night into day, chimney is of mica, cannot break, tank is of heavy galvanized iron, fixtures strongest seamless tubing, may be used by contractors, market men or farmers, to great advantage. One of these lamps will make your 'stand' the cynosure of all the eyes within its circle of light, fitted with inverted mantles. May be carried like lantern or hung up. Worth $25.00 to any one.

Our price only **12.50**

Gravity Gasoline Torch

No. N1690. Gasoline Torch. For outdoor use. Japanned round tank, holds one gallon, with rigid pipe, can be unscrewed and taken apart, double valve and a good strong burner.
Each..... .95 Dozen..... **11.00**

EXTRA TORCH BURNERS.

No. N1691. Burners. Will fit any standard size rigid pipe torch. Well made and give good light.

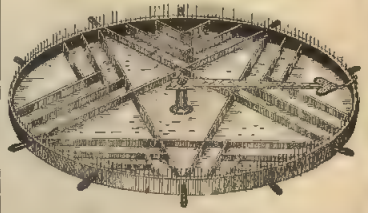
Each ..... .50

No. N1692. Baker Burner, the Baker burner has a reputation for being the best burner in the market for gasoline torches. It gives the most brilliant light. Each burner with one angle connection. Each ..... .75

Our Country Store

Merchandise Selling Device

A Great Stunt For The Concessionaire



No. CK335. "Our Country Store" is a simple unique novelty device constructed in an attractive substantial manner, round shape, divided into various triangle form sections with a post center on which is an affixed stationary arrow with pointer. These sections are filled with goods. The whole "Country Store" device is spun, whirls rapidly and finally stops. The pointer indicates the article or choice of articles the customer gets. A great variety of merchandise may be employed in this business. There are no chances and no misses. Everybody gets a good value and the operator makes good profit. This is one of the latest unique devices for selling merchandise. A very successful plan at all carnivals, picnics, fair or indoor bazaars, 36 in. in diameter, divided into numerous spaces, 5 large ones to contain big articles for "flashes." Absolutely legitimate, can be operated everywhere
Per each device **11.85**

ASSORTMENT OF VARIETY GOODS SUITABLE FOR "OUR COUNTRY STORE."

This assortment is made up of staple notions and variety goods such as thread, hooks and eyes, tape, packages of pins, shoelaces, darning cotton, sewing needles, needle books, paring knives, pencils, thimbles, pearl buttons, arm bands, tape measures, ironing wax, dressing combs, key chains, court plaster, bachelor buttons, collar buttons, kettle knobs, etc.

In this lot we include the following **Flashy Goods: Clock, watch, 8-piece silver set, jewel box, gold plated mirror, combination silver sugar bowl with spoon rack.**
In all 505 pieces for total of..... **12.50**

ASSORTMENT OF JEWELRY SUITABLE FOR "OUR COUNTRY STORE."

Assortment consists of 1000 pieces of attractive jewelry embracing scarf pins, brooches, belt pins, shirt studs, collar button sets, silk fobs, neckchains and lockets, assortment of rings, cuff links, hat pins, buttoniere roses.

INCLUDING THESE SPECIAL FLASHES:

Watch, dagger, clock, brush set, opera glass. All of these goods are attractive and at 5 cent throw brings in a net of $50.00 in returns, a profit of 40.00. That should satisfy most anybody on so small an investment. The whole scheme is one that may be termed "magnetic." It attracts and holds the people interested. They will spend money at "Our Country Store" because this is no chance game. Everybody gets their money's worth.
Total per 1000 pieces..... **10.00**

Fireproof - Simple

Efficient Economical

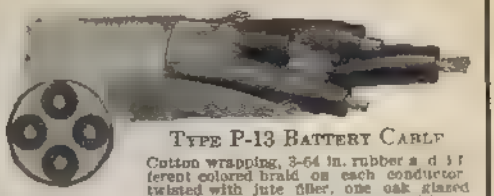
Kennedy Carburetor

Puddle for easy starting
All hot air for correct mixture
No air adjustments

Write for particulars

MANUFACTURED BY

L. D. ROBBINS CO. LYNN, MASS.



TYPE P-13 BATTERY CABLE

Cotton wrapping, 3-64 in. rubber and different colored braid on each conductor twisted with jute filler, one oak glazed braid over all, wax and varnish finish

Remember when buying

your supplies of ignition and lighting cables that

"STANDARD"
Ignition and Lighting Cables

are made with durability, economy and reliability in mind rather than appearance or mere price competition.

Get our samples before buying!

Standard Underground Cable Co.
Pittsburgh, Pa.

New York Philadelphia
Chicago Boston
San Francisco
St. Louis

THE "LONG" HORN

WARNING SIGNAL PERFECTION
ENTIRELY MECHANICAL

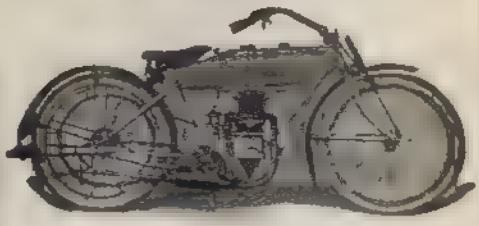
$10.00 to $19.00

NO Batteries, Wiring, Friction Pulley, Expense of Maintenance.

Furnished also in black and nickel.
EASILY ATTACHED TO ANY CAR.

THE G. PIEL COMPANY
13th St. and Blvd., Long Island City, N.Y.
PHILADELPHIA BRANCH: Broad and Race Sts.

MR. AUTO DEALER
HERE'S THE "BIG SIX"



Just the machine for you

You'll find that the 1913 Schickel Valveless Two-Stroke Motorcycle is as quiet as your motor car. The long tail pipe on the muffler reduces the two-stroke exhaust to a mild purr.

The neat, clean-cut lines and beautiful finish of Schickel Motorcycles are in keeping with the rest of your establishment.

Make your present equipment,—show space and shop earn more for you. Let us send you our special trade proposition. It has helped other dealers to get greater returns on their investment.

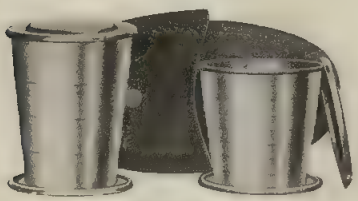
The selling season has opened. The call of the road grows stronger each day. Motorcycle buyers expect quick delivery, so get our proposition promptly. Don't delay.

WRITE NOW

THE SCHICKEL MOTOR COMPANY
57 Garden Street Stamford, Conn.

SANITARY AND COLLAPSIBLE DRINKING CUPS AND PEERLESS ATOMIZER

PRICE EACH



Nickel Plated Collapsible Cups.
No. 12843, $2.35
Height, 3 inches. Diameter, 2¾ inches.
Size when enclosed in Case, 3⅛ x 2⅝ inches.
With Leather Case.

Nickle Plated Nesting Cups in Black Leather Case.
No. 12844, Two Cups, $2.50
In Leather Case.
Height, 2¾ inches Diameter, 2 inches.

No. 12845, Set of 4 Cups, $4.00
Nickle Plated Nesting Cups.
Hand Sewed Buff Leather Case
Largest Cup, Height, 3¾ inches.
Diameter of Top, 2⅝ inches.

No. 12846, $3.00
Collapsible Cup.
Polished. Hinged Handle.
Leather Case.

No. 12847, $2.60
Collapsible Cup.
Satin Engraved. Cardboard Case. Leatherette Covered.

No. 12848, $1.85
Collapsible Cup.
Satin Engraved.
Leatherette Box.

No. 12849, $1.50
Collapsible Cup.
Satin or Gray Finish

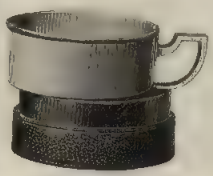
The Scientific
PEERLESS
Atomizer

For Every Family,
For Every Physician,
For Every Hospital.

Guaranteed for Ten Years.

No. 12852, Peerless Atomizer, $6.00
Nickle Plated, will last a lifetime, and requires but one hand to operate.

No. 12850, $2.75
Collapsible Cup
Polished. Hinged Handle.
Leather Case.



No. 12851, $2.25
Cup
Polished. Hinged Handle
Leather Case

FINE QUADRUPLE SILVER PLATED CUPS

PRICE BACK

No. 12653. Cup. **$2.50**
Etched French Gray Alphabet Cup

No. 12654. Cup. **$1.60**
Combination Polished and French Gray Figures. Gold Lined.

No. 12655. "Teddy Bear." **$2.75**
Bears, Gray Finish Plain Parts Polished. Gold Lined

No. 12656. Cup. **$1.20**
Polished Gold Lined

No. 12657. Cup. **$1.80**
Polished Gold Lined

No. 12658. Cup. **$0.80**
Polished Gold Lined

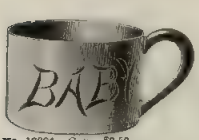
No. 12659. Cup. **$1.50**
Polished Engraved Gold Lined

No. 12660. Cup. **$1.20**
Satin Engraved Gold Lined

No. 12661. Cup. **$1.00**
Satin Engraved Gold Lined.

No. 12662. Cup. **$0.70**
Satin Engraved Gold Lined.

No. 12663. Cup. **$1.10**
Polished. Gold Lined



No. 12664. Cup. **$0.50**
Satin Engraved Gold Lined

No. 12665. Cup. **$1.00**
Satin Engraved Polished Shield. Gold Lined

No. 12666. Cup Assortment. **$9.00**
6 Cups in Lined Box. Gold Lined.

No. 12667 Cup. **$0.75**
Satin Engraved Gold Lined

Oils, Various.

No. 1944.

"Three-in-One" Lubricant.

Non-gumming and acidless.

The best for cleaning working parts of Model Engines, etc., etc.

Price, 1 oz. bottles, -/5 each.

3 oz. bottles, -/9 each.

Also supplied in 6 oz. tins, - 10 each

No. 1945.

"Standard" Lacquer.

In White, Black, Blue, Red, Green, Transparent, or Gold

Price .. -/8

No. 1946.

Vaseline Red.

Specially recommended for prevention of rust on Machine Tools. In hermetically sealed square tins.

5	10 lb.
3/-	5/6 per tin
25	50 lb.
12/-	19/6 per tin.

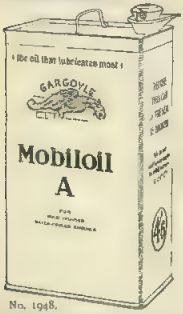
In half-barrels containing about 1¼ cwt., 39/6 per cwt. (carriage forward).

No. 1947

Vaseline Anti-Corrosive Paste.

Suitable for Guns and fine tools. The best Rust Preventative.

In 3 oz	¼ lb	1 lb tins.
-/4	7	1 per tin



No. 1948.

Motor Oil in Tins and Bulk.

Gallon, 4 6 ; Gallon, 2 6 Quart 1 6

Price per gallon in barrels, 2 6

Price per gallon in 5 or 10 gallon drums 2/9 Carriage forward

No. 1940.

"Pioneer" Clock Oil.

Yellow tube, conical Screw Cap.

Price 6 per bottle

No. 1950

"Pioneer" Watch Oil.

Large size.

Price .. - 9

6d. Bottles.

No. 1951. **"Stonoil."**

Non-gumming and acidless. A perfect Oil for Oilstones, Razor Hones and Strops, Clippers, Guns, Clocks, Typewriters, and all articles requiring an extra fine lubricant

Price . 5 2 2 10 6 oz. bottles.

Also 1 6 oz tins. Price - 10

No. 1952 **Velure Enamel.**

The most elastic and glossy made. The very thing for home use, Bicycles, Baths, etc.

In tins of -/6, -/9, and 1/-, in the following colours. Quotations given for Velure in larger quantities.

No.	Black.
78	Black
	Whites.
1	White
20	Ivory, Deep
127	" Light
112	China (for inside use only)
107	Flat
	Browns.
95	Bronze
27	Brown
9	Arabian Brown
11	Chocolate
56	Chestnut
89	Fawn
91	Light Brown

No.	
55	Mahogany Brown
90	Nut Brown
87	Oak, Dark
86	" Light
54	Purple Brown
17	Umber, Dark
48	" Deep Burnt
13	" Light "
24	" Pale "
108	Golden Brown
113	Khaki
	Blues.
65	Azure, Light
110	Cornflower Blue
61	Electric Blue

No.	
28	Light Blue
42	Pale "
62	Peacock Blue
60	Royal "
66	Sky "
64	Turquoise "
59	Ultramarine
	Greens.
7	Bronze Green
75	Chrome "
6	Dark "
67	Electric "
70	Emerald "
101	Engine "
69	Grass "

No.	
116	Holly Green
19	Leaf "
92	Moss "
104	" Light
14	Myrtle "
71	Navy "
74	Olive "
102	Pea "
5	Peacock "
76	Sage "
68	Sea "
96	Shamrock Green
72	Ship Green
	Greys.
82	Dove Grey

No.	
80	Fashion Grey
81	French "
98	Lavender "
105	Lead Grey
115	Light "
22	Pearl "
26	Slate "
79	" Dark
100	Smoke
94	" Dark
	Yellows.
45	Brimstone
84	Buff
41	Buttercup
47	Canary

A large and varied Stock of Machines and Tools for Woodworkers.

LUBRICATING OIL

For Guns, Revolvers, Bicycles, Sewing Machines, Scientific Instruments, Fine Machinery, Etc., Etc.

GUARANTEED TO CONTAIN NO ACIDS, AND NOT TO GUM

GUARANTEED TO THOROUGHLY LUBRICATE AND NOT TO CORRODE

*NORLEIGH DIAMOND

Strictly Pure Imported Italian Mineral Compound Chemically Perfect; Very Efficient and will Stand a High Fire Test. For this Reason it is an Exceedingly Valuable Lubricant on High Speed Compicated Machinery as Well as Bicycles, Sewing Machines, etc. Per Dozen

No. DMO —3 oz. Bottles $1 65

Each Bottle Packed in an Attractive Four Color Lithographed Carton. One Dozen Cartons and One Handsome New Idea Display Cabinet Twelve Dozen in a Case. Weight per Dozen 8 lbs., Average Weight per Case 80 lbs.

No. DMOP—Half Pint Cans with Patent Spout Top. Weight per Dozen 6 lbs. 2 75

No. DMOH—Half Gallon Cans with Screw Top. Weight per Dozen 45 lbs. 13 20

No. DMOG—One Gallon Cans with Screw Top. Weight per Dozen 90 lbs. 24 20

*RUGBY

A High Grade Refined Oil for Bicycles, Guns, Tools, Cutlery, Sewing Machines, etc

Per Dozen

No. 39R—2 oz Bottles; Weight per Dozen 3 lbs $0 80

One Dozen in a Box

THREE-IN-ONE

Lubricates, Prevents Rust, Cleans

Per Dozen

No. 35—1 oz. Bottles, Weight per Dozen 1 lbs $1 60

Two Dozen in a Box, 2¼ Dozen in a Case; Weight per Case 80 lbs.

No. 36—3 oz. Bottles, Weight per Dozen 7 lbs 3 60

One Dozen in a Box, 12 Dozen in a Case; Weight per Case 94 lbs

No. 37—8 oz. Bottles; Weight per Dozen 12 lbs . . . .

One Dozen in a Box; 6 Dozen in a Case Weight per Case 75 lbs

GUN GREASE

Diamond Deen

*DIAMOND DEEN

This Preparation is Unexcelled as a Preserver of Highly Polished Metal Surfaces. A Splendid Lubricant for Articles having Brass in their Composition. If a Lubricant Containing a Vegetable Oil is put on Brass Articles it will Produce Verdigris, Which May Ruin the Article Altogether. Diamond Deen Gun Grease Contains Absolutely no Vegetable Oils and Can be Used Inside of Delicate Locks, Safe Combinations and the Like with Perfect Safety. The Best Rust Preventive Made for Guns, Revolvers, Bicycles, Sewing Machines and Fine Machinery. Will not Gum or Drip and Contains no Acids or other Properties Which are Injurious to Highly Finished Metals. Can be Applied with Cloth or Fingers.

Per Dozen

No. D4—2 oz Tubes $1 55

One Dozen Tubes in a Fancy Cardboard Case

Weight per Dozen 1¾ lbs

WINCHESTER

A Light Coat of this Grease on any Polished Metal will Prevent it from Rusting, Provided it Has Been Properly Cleaned, and Preserve its Luster and Finish. This Compound will not Become Rancid in any Climate and will not Flow off from a Warm Barrel and Leave it Dry.

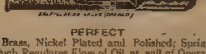
Per Dozen

No. W1—2 oz Tubes. $1 50

One Dozen Tubes in a Cardboard Box

Weight per Dozen 2¾ lbs.

POCKET OILERS



PERFECT

Per Dozen

No. 24P—Spun Brass, Nickel Plated and Polished; Spring Oiling Device which Regulates Flow of Oil at will of Operator, Can be Made to Discharge a Drop at a Time or a Steady Stream; with Oil Tight Cover; Weight per Dozen 10 oz. $3.85

One Dozen in a Box.

STAR

Per Dozen

No 12S—White Metal, Nickel Plated and Polished; Screw Oil Proof Cover with Needle Fitting in Oil Spout to Keep from Becoming Clogged and to Prevent Oil Running Out when Oiler is not in use; Weight per Dozen 8 oz. $1.10

Six Dozen in a Box

"DIAMOND EDGE IS A QUALITY PLEDGE"

PIECED TINWARE.

All Dimensions on this page are Standard Measurements.

NUTMEG GRATERS.

IC TIN, PLAIN; Malleable Iron Body, with Tin Cylinder for Nutmeg; Plain Wood Handle; Length over all 5¾ in., Height 6⅛ in.

No. 7 EDGAR. Weight per dozen about 1½ lbs. Per Dozen, $2.20

One Dozen in a Shipping Box. Display Carton Set with [illegible]

IC TIN; Grating Surface 2½ in.; Diameter, Tinned Iron Castings, Black Enameled Wood Handle.

No. 5—GEM. Weight per dozen about 3 lbs. Per Dozen $2.00

One Dozen in a Cardboard Box

GRATERS.

Perfection Combination Graters and Cutters.

IX TIN, PLAIN, Seamed and Soldered, Flat Tin Soldered Handle; Made with Nutmeg and Cocoanut Grating Surface on One Side, and Slaw and Potato Slicer Blades on Other Side. Height 7⅜ in., Size of Bottom 4x3 in., Size of Top [illegible] in.

No. 15—Weight per dozen about 8 lbs. Per Dozen, $2.00

One Dozen in a Package

SIFTER GRATERS.

IX TIN, PLAIN; Crimped on 10 Gauge Steel Wire Body, with Black Enameled Wood Handle.

No. 4 No. 1F

Nos.			
Size, inches	6 ¼x3⅜	9⅜x4¼	12¼x6
Weight per dozen about, lbs.	2	3	5
Per dozen	$1.00	1.20	2.10

FLAT GRATERS.

IX TIN, PLAIN; Crimped on ⅛ in. Tinned Steel Body.

Nos.	1F	2F
Size, inches	4x6½	[illegible]
Weight per dozen about, lbs.	3	4
Per dozen	$1.40	2.50

Packed Loose

ROUND GRATERS.

IX TIN, PLAIN; Seamed and Soldered, Flat Tin Soldered Handle, Made with MEDIUM and COARSE Grating Surfaces, Size 7½x3⅛ in.

No. 70—Weight per dozen about 1½ lbs. Per Dozen, $1.40

IX TIN, PLAIN; Seamed and Soldered Rimmed Top and Bottom Body, Flat Tin Soldered Handle. Made with FINE, MEDIUM and COARSE Nos. Size 7½x4 in.

No. 6—Weight per dozen about 6 lbs. Per Dozen $2.00

Can be used for Grating Cocoanut, Horse Radish, Nutmeg, etc.

No. 6 No. 7

One Dozen in a Package.

Family Size, Japanned Cast Iron Frame, Heavy Tin Grating Surface; Height over all 8½ in., Width, including Handles, 8½ in., Top Casting 3½x3⅜ in., Diameter of Grater Drum 3⅜ in. For Grating Cocoanut, Horse Radish, etc.

No. 710 HOOSHINS Revolving. Weight per dozen about 36 lbs. Per Dozen $17.00

One-twelfth Dozen in a Cardboard Box.

PIECED TINWARE.

All Dimensions on this page are Standard Measurements.

GRATERS.

VEGETABLE.

Cast Iron Frame, Painted Blue; IX Tin, Retinned, Feed Box and Cylinder, Securely Soldered Wire Rimmed Edge, Double Tooth IX Tin Removable Grating Drum, Crimped to Steel Pivot, Solid Oak Wood Jam Block, with Varnished Oak Wood Knob; Japanned Cast Iron Crank with Thumb Screw Fastener; Varnished Oak Wood Handle Frame Fitted with Thumb Screw Clamp. Opens 1 in.

Per Dozen

No. 115 Size of Feed Box 3½x2¼ in.; Diameter of Grating Drum 2½ in.; Depth 3 in.; Height over all 3½ in.; Weight per dozen about 45 lbs..... $26.00

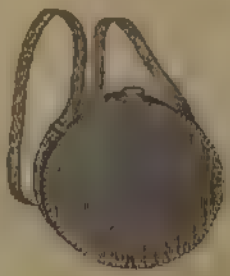
One-twelfth Dozen in a Cardboard Box

Cast Iron Cylinder, Frame and Cranks Japanned and Decorated. Cylinder in two Sections, which are held secured together by two Steel Spring Clamps Geared to Secure Rapid Motion of Drum. Grating Drum is Double, Perforated Outside and Solid Inside, which prevents the Grated Material from coming through the holes in long Strings, and to insure Short, Light, Fine and Flaky Gratings. Especially adapted for Grating Horseradish, Potatoes and many other Vegetables; Grated substance passes through opening in bottom of Cylinder.

No. 500—Drum 8½ in. in Diameter, [illegible] in. Wide. Height over all 15½ in.; 5 in. Wide, 3 in. Deep. Weight per dozen about 150 lbs.....Per Dozen, $92.00

One-twelfth Dozen in a Cardboard Box

CANTEENS.



Seamed and Soldered; IX TIN PLAIN; Soldered Tin Screw Cap, Soldered Tin Strap Loops, Flannel Cover and Cloth Strap; Width of Strap 1⅛ in.

Nos.	2	3	4
Capacity, quarts	2	3	4
Diameter, in.	6¼	8	9½
Width, in.	2	3¼	3¼
Wgt. per doz. abt. lbs.	8	10	12
Per dozen	$7.00	10.00	12.50

Packed Loose

Large Galvanized Iron, Soldered Tin Screw Cap; Soldered Galvanized Iron Strap Loops, Soldered Flannel Cover and Cloth Strap; Width of Strap 1⅛ in.

Nos.	150	151	152	153
Capacity, quarts	2	3	4	5
Diameter, inches	7⅛	8½	10⅛	11½
Width, inches	3	4	4¾	4¾
Size of Screw Cap, inches	1	1¼	1¼	1¼
Weight per dozen abt. lbs.	12	18	24	28
Per dozen	$10.00	14.50	16.50	19.50

Packed Loose.

PIECED TINWARE.

All Dimensions on this page are Standard Measurements.

STOVE SETS.

Per Set

No. 700—33 PIECES in a No. 17F Wash Boiler..$4.30

No. 800—33 PIECES in a No. 18F Wash Boiler.. 4.50

Weight per Set about 18 lbs.

Contents of Nos 700 and 800:

1—Plain Wash Pan, No. 7.
1—Plain Dipper, No. 2.
1—Flesh Fork No. 013.
1—Each—4 qts. and 5 qts., Plain Dairy Pan, No. 1C.
No. 1C Rinsing Pan, Re- 4 quarts
1—Sauce Pan No. 910
1—Basting Spoon, 12 in.
Turner, No. 13
—Plain Pie Plates, 9 in.
2—Heart Patty Pans
2—Scalloped Patty Pans, No 2.
1—Coffee Pot No. 200
1—Pint Cup.
1—Biscuit Cutter No. 89
2—Cake Cutters No. 1.
6—Tea Spoons No. 305.
8—Table Spoons No. 40
1—Wash Boiler, IC Metal Bottom (No. 17F for No. 700, No. 18F for No. 800)

Per Set

No. 1700—36 PIECES in a No. 17F Wash Boiler....$4.60

No. 1800—36 PIECES in a No. 18F Wash Boiler.... 4.80

Contents of Nos 1700 and 1800:

1—Drip Pan 6x9
1—Drip Pan 7x10.
Drip Pan 8¼x15
1—Stove Shovel No. 50
1—IC Patent Metal Bottom Wash Boiler No. 17 Flat IC Patent Metal Bottom Coffee Boiler No. 117
1—Sauce Pan and Cover No. 916.
1—B and R Cover, No. 10¾.
2—Pie Plates 9 in.
6—Spoons No. 305.
8—Spoons No. 40
1—Biscuit Cutter No. 2½.
1—Cake Cutter No.
1—Cake Turner No.
1—Large Spoon No. 31
1—Large Wire Frost Fork
1—Flesh Dipper No. 2
1—Pint Pressed Cup.
1—Japanned Paper Box.
1—Japanned Box of Tin
1—Sugar or Egg Beater.
1—Plain Basin No. 7.
1—Scalloped Tubed Cake Pan No. 2.
1—4 qt. Plain Dairy Pan
2—Patty Pans, Assorted.
1—Wash Boiler; IC Patent Metal Bottom (No. 17F for No. 1700, No. 18F for No. 1800).

One Set in a Wood Box; Weight per Set about 18 lbs.

FLOUR SIFTERS.

Capacity 3 Pints. All Joints Double Seamed; Round Tin Handle with Brace. Soldered; Beaded Body; Removable Wire Bottom; 12 Gauge Removable Wire Scraper with Ebonized Wood Knob.

SIMMONS STERLING.

ROTARY

IX Tin, Same Pattern as Hunter's; Diameter 5 in.; Depth 6¾ in.

No. SC—COPPER PLATED; Weight per dozen about 14 lbs. .....Per Dozen, $4.30

No. SN—NICKEL PLATED; Weight per dozen about 14 lbs. .....Per Dozen, $4.30

One Dozen in a Fibre Carton.

Per Dozen

No. R—ROYAL, ROTARY; IC Tin; Diameter 5 in.; Depth 6 in.; Weight per dozen about 14 lbs.....$2.40

One Dozen in a Case.

Capacity 3 Pints; IX Tin Body, Nickel Plated; All Joints Double Seamed; Rosewood Finish Wood Handle, securely Screwed to Body; Removable Wire Bottom; 14 Gauge Removable Wire Scraper, with Rosewood Finish Wood Knob

Per Dozen

No. PN—PRIZE; Diameter 5 in.; Depth 6 in., Weight per dozen about 14 lbs..... $4.30

One Dozen in a Case.

PIECED TINWARE.

All Dimensions on this page are Standard Measurements.

FLOUR SIFTERS.

IC Tin; Capacity 3 Pints. All Joints Double Seamed Diameter 5 in., Depth 6¾ in., Wood Handle with Steel Braces, Soldered to Body; Stationary Wire Bottom Seamed to Rim; Double Beaded Body; 8 Gauge Removable Wire Scraper.

Per Dozen

No. 1—SHAKER; Weight per dozen about 14 lbs.. $4.30

One Dozen in a Fibre Carton.

No. 1H.

Rotary IC Tin; Capacity 3 Pints; All Joints Double Seamed; Round Tin Handle with Brace and Removable Cap on End, Soldered; Double Beaded Body; Removable Wire Bottom, Soldered to Body; 12 Gauge Removable Wire Scraper with Ebonized Wood Knob; Diameter 6 in., Depth 6¾ in

Per Dozen

No. 1H—GENUINE HUNTER'S, Weight per dozen about 13 lbs.....$2.80

One Dozen in a Fibre Carton.

No. 1—HUNTER'S PATTERN, Weight per dozen about 12 lbs. .....

One Dozen in a Case

IX Tin; Capacity, 3 Pints; All Joints Double Seamed, Flat Steel Handle, Tinned and Riveted; Stationary Wire Bottom Seamed to Rim; 8 Gauge Removable Wire Scraper with Ebonized Knob. Diameter 6 in.; Depth 4 in

Per Dozen

No. G—GEM; Weight per dozen about 3 lbs.... $2.40

One Dozen in a Carton; Nested Twelve Dozen in a Crate.

FLOUR SIEVE AND FRUIT WASHER.

IC Tin, Rolled Top; Perforated IC Tin Bottom; 7 Meshes to an Inch.

Nos.	5	10
Diameter, inches	10	12½
Depth, inches	2½	2¾
Weight per dozen about, lbs.	5	6½
Per Dozen	$1.60	2.20

One Dozen in a Package

SINK STRAINERS.

IC TIN, SEAMED; BLUE JAPANNED, with Perforated Front and Bottom, Wired Top Rim, with Hanging Hook at End for Attaching to Sink; Length 9⅝ in., Width 7⅞ in.; Depth 4½ in

No. 11V—Weight per dozen about 6 lbs. .....Per Dozen, $2.00

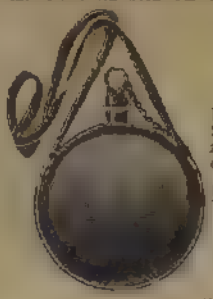
IC TINNED, SEAMED; BLUE JAPANNED; with Perforated Front and Bottom; Wired Top Rim Furnished with 16 Gauge Removable Bright Steel Wire Hanging Bracket for Hanging over Rim of Sink; Can be hung from either side. Length 10⅝ in.; Width 9⅝ in.; Depth 4½ in

No. 1V—Weight per dozen about 7 lbs. .....Per Dozen, $3.60

One Dozen in a Cardboard Box.

PIECED TINWARE.

All Dimensions on this page are Standard Measurements



CANTEENS.

GOVERNMENT PATTERN

Seamed and Soldered; IX TIN. PLAIN; Soldered Tin Lip, with Cork Stopper and Chain; Soldered Tin Strap Loops; Flannel Cover and Cloth Strap; Width of Strap 1⅞ in.

No. 2G—Capacity 1 Quart; Diameter 3¼ in. Width 2 in.; Size of opening 1 in.; Weight per dozen about 8 lbs.....Per Dozen **$9.50**

Packed Loose.

FOR MINERS' OIL.

Seamed and Soldered; IX TIN PLAIN, ⅝ in. Soldered Screw Top, Riveted Steel Strap Loops.

No. 10—Capacity 1 Pint; Diameter 5 in. Width 1¼ in.; Weight per dozen about 5 lbs....Per Dozen, **$2.80**

Packed Loose

‡SYRUP PAILS

With Friction Top Self-Sealing Cover.

IC Tin; Soldered Seams; Round Tin Ears, Soldered; Steel Wire Bail, 13 Gauge

Nos.	‡5/50	‡10/50	‡5/100
Capacity, lbs.	5	10	5
Size, inches	6⅞x5 11/16	6⅞x7½	6⅞x5 11/16
Quantity in Crate, each	50	50	100
Weight per Crate about, lbs	50	60	100
Per Thousand	$85.00	137.50	95.00

Nos.	‡10/100	‡5/200
Capacity, lbs.	10	5
Size, inches	6⅞x7½	6⅞x5 11/16
Quantity in Crate, each	100	200
Weight per Crate about, lbs.	150	140
Per Thousand	$132.40	91.30

Nos.	‡5/264	‡10/132
Capacity, lbs.	5	10
Size, inches	5 13/16x5 11/16	6⅞x7½
Quantity in Crate, each	288	132
Weight per Crate about, lbs.	235	218
Per Thousand	$89.70	142.00

NOTE—Sold in Full Crates Only.

IN BULK (NOT CRATED)

Nos.	‡5LB	‡10LB
Capacity, lbs.	5	10
Size, inches	6⅞x5 11/16	6⅞x7½
Weight per Thousand about, lbs.	600	900
Per Thousand	$78.70	113.00

NOTE—Syrup Pails in Bulk can only be Furnished in Car Lots

FRUIT CANS.

Per Gross

No. 1Q—1 QUART, IC TIN, All Joints Soldered. Diameter 4⅛ in., Height 4⅝ in. Weight per gross about 60 lbs.....**$6.90**

One Gross in a Case.

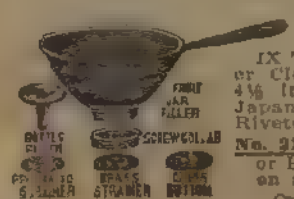
FRUIT JAR CAPS.

Genuine Porcelain Lined; ZINC CAP; Diameter 3 in.

No. 1 ... Weight per gross ... Per Gross. **$3.50**

One-half Gross in a Cardboard Box

FRUIT JAR FILLERS.



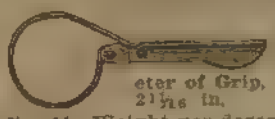
IX TIN; Two Sizes of Mesh Strainer Cloth; Stamped Bowl, Diameter 4½ in.; All Seams Soldered, Black Japanned Steel ... Riveted; Height over all 4¾ in.

No. 21—Dipper, Strainer, Funnel or Bottle Filler, Weight per dozen about 3 lbs....Per Dozen **$2.40**

One-half Dozen in a Package

‡ Goods marked thus (‡) are not carried in stock and ... are to be ... by shipment direct from factory

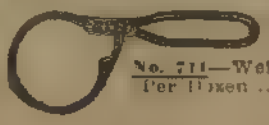
FRUIT JAR WRENCHES.



Stamped Steel Folded Handle, Nickel Plated; 11 Gauge Steel Wire Grip, securely riveted Length over all 7⅛ in.; Diameter of Grip, when Closed 2 1/16 in., when open 2 1/16 in.

No. 44—Weight per dozen about 1¾ lbs....Per Doz., **$1.40**

One Dozen in a Cardboard Box.



FLAT COPPERED STEEL, Diameter of Opening 2⅜ in., Length over all 8 in.

No. 711—Weight per dozen about 6 lbs Per Dozen **$1.90**

Packed Loose

Directions How to Operate, Accompany each Wrench

FRUIT JAR RINGS.

RUBBER

Medium Grade; 9/32 in Wide, 5/64 in. Thick; Inside Diameter 2¼ in., Outside Diameter 2⅝ in.

No. 3—RED; Weight per gross about 30 .....Per Gross. **$1.00**

One Dozen in a Cardboard Box, Two Gross in a Cardboard Carton

Best Grade, Antiseptically Treated 5/16 in Wide 1/16 in. Thick; INSIDE Diameter 2 1/16 in. Outside Diameter 2⅜ in

Per Gross

No. 4—RED CHIEF; Weight per gross about 22 ozs **$1.50**

Neatly Wrapped One Dozen in a Bundle, with Waxed Paper

Extra Grade; 41/64 in. Wide, 3/32 in. Thick; Inside Diameter 2¼ in. Outside Diameter 2 15/16 in.

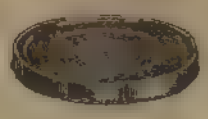
Per Gross

No. 5—WHITE, Weight per gross about 48 ozs.. **$1.80**

One Dozen in a Cardboard Box

TINNERS' TRIMMINGS.

MILK SETTER COVERS.



IX Tin, Rimmed Edge; Seamless

CRIMP

No. 5[illegible] Size 8¼ in., 8⅜ in. Diameter ... Weight per dozen about 4 lbs Per Gross. **$15.00**

One-half Gross in a Package

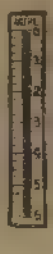
CREAM CAN FAUCETS.

THREADED

Made of Heavy Tin, with Leather Washer Securely Screwed at End of Plug; Soldered Tin Spout ⅝ in. Diameter.

No. CCF—Length over all 2¾ in.; Diameter of Threaded Plug 1⅛ in.; Diameter of Thumb Screw 1⅜ in.; Weight per dozen about 3 lbs.....Per Dozen. **$3.20**

One Dozen in a Cardboard Box



CREAM CAN GAUGES.

Plain IC Tin; Ruled from 0 to 6 in.; Fitted with Mica Glass Face

No. CCG—Length over all 6¾ in.; Width 1 in., Weight per dozen about 2 lbs..... Per Dozen, **$1.00**

Three Dozen in a Cardboard Box.

MILK CAN FAUCETS.

⅝ in. Cast Brass Rough, Nickel Plated; Taper Detachable Plug, Particularly Adapted for Milk Cans, being Easily Cleaned, Length 3⅝ in.

No. 137—Weight per dozen about 5½ lbs.....Per Dozen, **$4.50**

One Dozen in a Cardboard Box.

TINNERS' TRIMMINGS.

All Dimensions on this page are Standard Measurements.

MILK CAN LETTERS.

Size 1¾x1 in.; Made of 26 Gauge Brass, with Tinned Back; Width ⅛ in.

No. MCL—Weight per hundred about ½ lb. Per Hundred $2.80

One-half Hundred of each Letter in a Package

CAN SCREWS.

Seamless Zinc; Stamped Thread ⅜ in. Flange.

Nos.	CS ½	CS ¾	CS 1
Size, inches	½	¾	1
Height, inches	½	⅝	1
Gross in Cardboard Box		1	1/6
Wgt. per gross abt. lbs	¾	2½	4½
Per gross	$2.40	2.70	3.80

Nos.	CS 1¼	CS/1½	CS/2
Size, inches	1¼	1½	2
Height, inches	1	1⅛	1⅛
Gross in a Cardboard Box	1/6	1/6	1/6
Weight per gross, about, lbs	5	6	9
Per gross	$4.80	6.50	12.00

MILK CAN SCREWS.

Seamless Zinc; Stamped Threads. ½ in. Flange; Height ½ in.

Nos.	3	4
Size, inches	3	4
Weight per gross about lbs	13	16
Per gross	$8.50	9.50

One-sixth Gross in a Cardboard Box.

BOILER COVERS.

Seamless Stamped; Plain IC Tin, Rimmed Edge. St. Louis Sizes.

Nos.	8	9
Size, inches	11⅝x22¾	12½x23¼
Weight per dozen about, lbs.	[illegible]	13
Per dozen	[illegible]	[illegible]

One Dozen in a Package

BUCKET COVERS.

Seamless Stamped, Plain IC Tin.

Nos.	BC 2	BC/3
Size, quarts	2	3
Diameter, inches	6⅛	7
Weight per gross about, lbs	14	16
Per gross	$6.90	8.00

Nos.	BC 4	BC/5	BC/6	BC/7
Size, quarts	4	5	6	7
Diameter, inches	7¾	8⅜	8¾	9
Weight per gross abt. lbs	20	22	[illegible]	30
Per gross	$9.50	10.50	11.50	12.00

One-half Gross in a Package

POT COVERS.

Seamless Stamped; Plain IC Tin Beaded Edge with Wire Ring.

Nos.	PC 7	PC 7½	PC 8	PC 8½
Size, inches	7	7⅜	8	8⅛
Weight per gross about, lbs.	18	24	26	[illegible]
Per gross	$6.00	6.30	[illegible]	6.80

Nos.	PC 9	PC 9½	PC/10	PC 10½
Size, inches	9	9½	10	10½
Weight per gross about, lbs	32	36	38	40
Per gross	$7.10	7.80	8.40	9.00

Nos.	PC 11	PC 11½	PC 12
Size, inches	11	[illegible]	12
Weight per gross about, lbs.	42	50	60
Per gross	$9.50	10.50	12.00

Nos.	PC 12½	PC 13	PC 13½
Size inches	12½	13	13½
Weight per gross about lbs	72	76	[illegible]
Per gross	$12.50	13.50	14.00

Nos.	PC 14	PC 14½	PC/15	PC/16
Size inches	14	14½	15	16
Weight per gross about, lbs.	95	105	115	135
Per gross	$24.00	28.00	32.00	38.00

9½ in. Pot Cover will fit No. 7 Pots, 10½ in. will fit No. 8, and 11 in. will fit No. 9 Pots.

One-twelfth Gross in a Package.

TINNERS' TRIMMINGS.

All Dimensions on this page are Standard Measurements.

Adapted for Tea and Coffee Pots, Tea Kettles, Pot and Bucket Covers, etc.

TEA POT KNOBS.

LILY.

Per Card

No. 36—BLACK ENAMELED WOOD, Assorted Sizes; Two Discs for each Knob, 36 Knobs on a Card 10x11 in. $0.80

One Card in a Cardboard Box; Weight per Card about 1⅛ lbs

INDIAN HEAD

No. 100—BLACK ENAMELED Wood, Assorted Sizes; Two Discs for each Knob; 49 Knobs on a Card, 12x14 in., Easel back. . . . . Per Card, $1.30

One Card in a Cardboard Box; Weight per Card about 1½ lbs

No. 80—BLACK ENAMELED WOOD, Assorted; Two Tin Discs and One Nut for each Knob; Weight per Gross about 3 pounds Per Gross . . $2.20

One-half Gross in a Box.

TEA POT HANDLES.

For Slanting Pots.

BLACK ENAMELED WOOD, with Tin Sockets Screwed to Handles; Made for Soldering Purposes; Height over all 6 in.; Diameter ⅜ in.; Length of Upper Brace 1¼ in.; Length of Lower Brace 1 in.

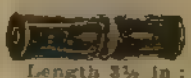
No. 51½—JAHANT'S PATTERN; weight per Dozen about 1⅛ lbs. . . . . Per Dozen, $1.00

For Slanting Pots

BLACK ENAMELED WOOD, with Tin HINGE; Sockets Screwed to Handle; Made for Soldering Purposes; Height over all 6 in.; Diameter ⅜ in. Length of Upper Brace 1¼ in.; Length of Lower Brace 1 in.

No. 55½—JAHANT'S PATTERN; Weight per Dozen about 1⅛ lbs . . . . . Per Dozen, $1.00

One Dozen in a Cardboard Box.



BAIL WOODS.

No. 2—BLACK ENAMELED WOOD; Length 3½ in.; Diameter ⅜ in.; Size of Hole 3/16 in. Weight per Gross about 10 lbs. . . . . Per Gross, $1.40

Packed Loose.

SPRINKLER HEADS.

Seamless; PLAIN IX TIN; Stamped Threaded Base; Threaded Zinc Cap

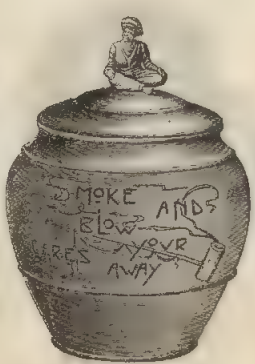
Nos.	0	1
Diameter of Head, in.	¾	[illegible]
Diameter at Spout Opening, in.	9/16	[illegible]
Height over all in.	1	[illegible]
Weight per dozen about, lbs.	¾	1
Per dozen	$0.70	1.20

Nos.	2	3
Diameter of Head, in.	[illegible]	[illegible]
Diameter of Spout Opening, in.	⅝	1
Height over all in.	[illegible]	[illegible]
Weight per dozen about, lbs.	1¼	1½
Per dozen	$1.30	1.50

One Dozen in a Cardboard Box.

Fine Quadruple Silver Plated Ware

7934
Tobacco or Cigar Jar, Decorated Assorted Colors and Subjects, China Jar with Burnished and French Gray Cover, Height 6½ Inches.
$2.05 Each.

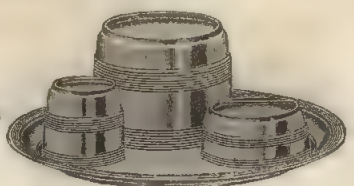


7935
Tobacco Jar, Black Inlaid Engraving, One-third Size.
$8.00 Each

7936
Flask, Burnished,
$4.40 Each

7937
Smoking Set, Four pieces, Burnished, Pierced with Engraved Tray Glass Lined Ash Receiver and Two Cigar Holders Attached. Diameter of Tray 9 Inches. Height of Cigar Holder 3½ Inches
$12.10 per Set.

7938
Smokers' Set. Burnished and Pierced Cigar Holder. Ash Tray Engine Turned and Engraved. Height, 6 Inches,
$7.40 per Set.



7939
Smoking Set, Four Pieces, Burnished Threaded Design Gold Lined Open Pieces, Diameter of Tray 8¼ Inches.
$6.75 per Set.

We Are "The House of Quality." You Can Be Sure that Anything You Get From Us Is All Right.

"THE HOUSE OF QUALITY"

Fine Quadruple Silver Plated Ware

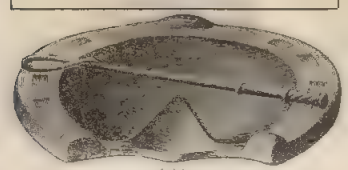
7940
Shaving Stand, Burnished. Fitted with Hygeia Opal Glass Lining, Plated Handle Brush, 6 inch Beveled Glass Mirror, Height 17½ inches.
$6.95 Complete

7941
Shaving Stand, Burnished Base, Pierced Cup Fitted with Hygienic Opal Glass Lining, Silver Plated Handle Brush and Wire Loop Shaving Soap Holder, 6 Inch Beveled Glass Shaving Mirror, Engraved Silver Back on Extension Rod with Thumb Screw. Height of Stand complete 17½ Inches.
$12.50 Complete

7942
Shaving Strop, Self Winding, Satin, Burnished Shield,
$3.65 Each

7943
Ash Tray Satin Finish. Width 5½ inches
$2.00 Each

For Shaving Sundries
See Page 602.



7944
Ash Receiver, Plain Burnished, Width 5½ Inches,
$4.00 Each

7945
Shaving Set, Burnished, Gold Lined,
$4.00 per Set

Don't Hesitate to Write and Ask Questions. We Want You to Know All About Our Goods.

"THE HOUSE OF QUALITY"

Improved Treadle Drilling Machines.

Hand feed by balanced Swinging Lever. Three-speed Cone. Adjustable Stop.

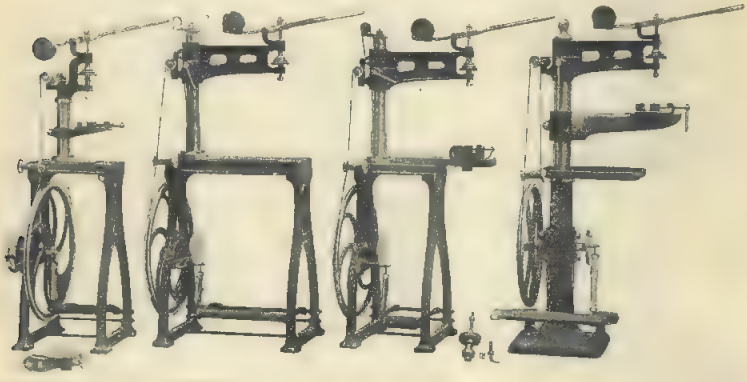
No 2487. Fitted with Sliding Vice mounted on Cast-iron Table swivelling around the Pillar and adjustable at the desired height. Can also be supplied with Arm, carrying Vice at one end and Circular Plate at the other, at 6 extra.

No. 2488. With Adjustable Radial Arm admitting $16\frac{7}{16}$ in.

No. 2489. With Adjustable Radial Arm admitting $16\frac{7}{16}$ in., suitable for Electrician and Bicycle Maker.

No. 2490. With Radial Arm admitting $16\frac{5}{8}$ in., fitted with Vice-holder adjustable at an angle and at the desired height.

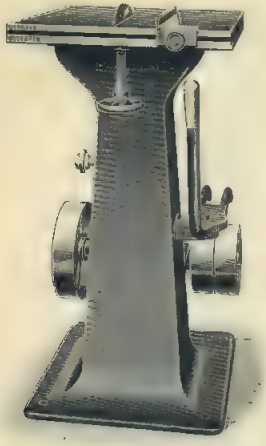
No. 2487. No. 2488 No. 2489. No. 2490.



	No. 2487.	No. 2488.	No. 2489	No 2490
To drill holes with Treadle up to	$\frac{6}{16}$ in.	$\frac{6}{16}$ in.	$\frac{6}{16}$ in.	$\frac{6}{16}$ in.
,, ,, Pulleys up to	$\frac{8}{8}$,,	$\frac{8}{8}$,,	$\frac{8}{8}$,,	$\frac{8}{8}$,,
Diameter of Pillar	$2\frac{9}{16}$,,	$2\frac{9}{16}$,,	$2\frac{9}{16}$,,	$3\frac{9}{8}$,,
Depth of Feed	$2\frac{5}{16}$,,	$2\frac{5}{16}$,,	$2\frac{5}{16}$,,	$2\frac{5}{16}$,,
Distance from Drill to Pillar	$3\frac{1}{4}$,,	$16\frac{7}{16}$,,	$16\frac{7}{16}$,,	$16\frac{5}{8}$,,
Approximate weight of Machine	243 lb.	298 lb.	308 lb.	528 lb.
Normal speed of Pulleys	50 revolutions.	50 revolutions.	50 revolutions.	50 revolutions.
Price of Machine ... ...*	£7 : 2 : 6	£8 : 8 : 0	£8 : 16 : 0	£14 : 0 : 0
Extra, if required. Vice	—	—	0 : 16 : 0	—
Plate-holder and Circular Plate	0 : 6 : 6	—	—	—
Drilling and Dividing Apparatus for Bicycle Naves	—	—	1 : 16 : 0	—
Two Pulleys for Power .	0 : 8 : 0	0 : 8 : 0	0 : 8 : 0	0 : 8 : 0

Free on Rail London.

Orders of 20/- and upwards Carriage Paid (with few exceptions).



Column Saw Bench.

No. 2533.

For Electrotypers, Stereotypers, and Printers.

Made for treadle or power.

The machine for the printer.

All dust is collected in a box inside of the pedestal.

This Saw Bench is the most compact self-contained single saw machine on the market. The strength and stability of the machine are well illustrated in the engraving. An adequate Glass Guard and Holder is provided. The Saw Mandril runs in extra long bearings. All bearings are independent of the pedestal. The Countershaft is fixed to the pedestal. The machine is provided with an 8-in. Saw for wood and metal, Spanner and Lubricators. The Table has a tilting movement.

Sizes.	
Size of Table	19 × 19 in.
Floor Space	24 × 24 in.
Weight	3½ cwt
Price, with fences...	£11 : 10 : 0

For a complete list of Circular Saws and Benches, see Catologue No. 21.

Circular Saw Bench.

No. 2534. For Treadle or Power.

This is a substantially constructed and well-finished Saw Bench, suitable for Cabinet Makers, Metal Workers, etc.

It has a Rising and Falling Hinged Table, regulated by a screw, and is fitted with heavy momentum fly wheel.

It is fitted with a Surfaced Parallel Guide and Adjustable Mitre Guide for left and right hand. Table 18 × 9 in., Saw 8 in.

It will be found to be a superior bench in every respect, and will repay cost within a short time.

For Foot Power only	£8 : 5 : 0
„ and Steam Power	9 : 5 : 0
If Gun Metal Bearings, for Power only . ..	9 : 0 : 6
Ditto, ditto, for Foot and Power ...	10 : 6 : 0

No. 2535. Larger Size, with Table 33 × 24 in., taking Saws up to 15 in., Spindle running in Gun Metal Bearings, Straight and Adjustable Fences, heavy fly-wheel, Ball and Socket Bearings for Crank shaft.

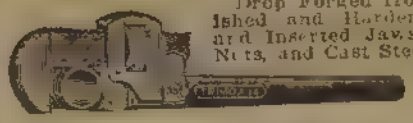
For Foot only	£12 : 7 : 0
Ditto, ditto, for Foot and Power	13 : 9 : 6
Ditto, with Pulleys on Extending Saw Spindle, for Power only...	12 : 7 : 0

12 in. diameter Saw supplied with each Bench.

Carriage Forward.

A large and varied Stock of Machines and Tools for Woodworkers.

PIPE WRENCHES.



TRIMO, PIPE.

Drop Forged from Tool Steel, Polished and Hardened Jaws, Frames and Inserted Jaws Japanned Finish Nuts, and Cast Steel Handle. Inserted Jaw and Frame fastened to Handle by Movable Steel Pin.

Nos.	T6	T8	T10	T14
Length, Open, inches	6	8	10	14
Adjustable to Pipe, in.	⅛ to ½	⅛ to ¾	⅛ to 1	⅛ to 1⅛
Weight each about, lbs.	½	¾	2	3
Each	$2.00	2.00	2.25	3.00
	1.40	1.40	1.60	2.00

Nos.	T18	T24	T36	T48
Length Open, inches	18	24	36	48
Adjustable to Pipe, in.	⅛ to 2	⅛ to 2½	½ to 3½	1 to 5
Weight each about, lbs.	5	8	16	25
Each	$4.00	6.00	12.00	18.00
	2.60	3.80	7.40	11.00

Nos. T6 to T24, Six in a Wood Box; Nos. T36 and T48, Packed Loose.

EXTRA PARTS FOR TRIMO WRENCHES.

FRONT JAWS.

Nos.	TFJ6	TFJ8	TFJ10
Inches	6	8	10
Weight each about, lbs	⅛	⅛	⅛
Each	$0.50	.50	.54

Nos.	TFJ14	TFJ18	TFJ24	TFJ36	TFJ48
Inches	14	18	24	36	48
Weight each about, lbs	⅛	⅛	⅛	⅛	⅛
Each	$0.72	1.00	1.50	2.00	4.40

NUTS.

Nos.	TN6	TN8	TN10	TN14
Inches	6	8	10	14
Weight each about, lbs.	⅛	⅛	⅛	⅛
Each	$0.20	.20	.27	.35
	$0.16	.16	.20	.26

Nos.	TN18	TN24	TN36	TN48
Inches	18	24	36	48
Weight each about, lbs	¼	¼	½	1
Each	$0.42	.60	.65	.80
	$0.32	.36	.48	.58

INSERTED JAWS.

Nos.	TJ6	TJ8	TJ10	TJ14
Inches	6	8	10	14
Weight each about, lbs	⅛	⅛	⅛	⅛
Each	$0.25	.25	.33	.50
	$0.18	.18	.24	.30

Nos.	TJ18	TJ24	TJ36	TJ48
Inches	18	24	36	48
Weight each about, lbs	¼	½	¼	1
Each	$0.65	.65	1.00	1.25
	$0.40	.48	.72	.80

FRAMES.

Nos.	TF6	TF8	TF10	TF14
Inches	6	8	10	14
Weight each about, lbs	⅛	¼	¼	½
Each	$0.25	.25	.33	.45
	$0.18	.18	.24	.34

Nos.	TF18	TF24	TF36	TF48
Inches	18	24	36	48
Weight each about, lbs	½	½	1½	2
Each	$0.65	.65	.75	1.00
	$0.40	.48	.54	.72

Packed Loose.

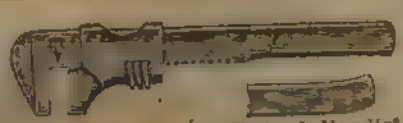
AUTOMOBILE WRENCHES.

KEEN KUTTER*

Forged from Tool Steel, Case Hardened Jaws Black Finish, Length 9 in.; Jaws Open 2 in.

Per Dozen

No. K05 — KEEN KUTTER* Straight Bar $7.40



Per Dozen

No. K08 — KEEN KUTTER*; End of Handle Bent for Removing Tires $7.40

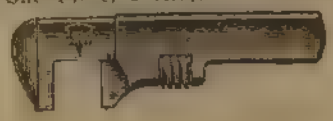
Showing End of Handle.

One-half Dozen in a Cardboard Box. Weight per Dozen about 12 lbs.

BICYCLE WRENCHES.

KEEN KUTTER*

Forged from Tool Steel Case-hardened Jaws; Length, Closed 4 in., Jaws Open 1⅝ in.; Front Jaws and Bar One Piece, Fitting Into Hollow Handle.



Per Dozen

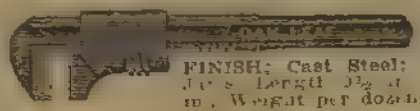
No. K03—KEEN KUTTER*; NICKEL PLATED AND POLISHED $5.60

Per Dozen

No. K04—KEEN KUTTER*; BLACK FINISH..$4.60

One Dozen in a Cardboard Box; Weight per Dozen about 4½ lbs.

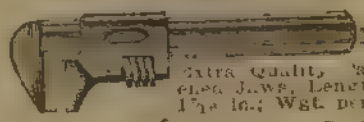
OAK LEAF*.



Per Dozen

No. ED — OAK LEAF*; PLAIN FINISH; Cast Steel; Case Hardened Jaws; Length 5½ in.; Jaws Open 1½ in.; Weight per doz. about 18 lbs $6.60

One-half Dozen in a Cardboard Box.



Per Dozen

No. 5½ — ESSEX NICKEL PLATED, Extra Quality Cast Steel, Case Hardened Jaws, Length 5½ in.; Jaws Open 1⅛ in.; Wgt. per doz. abt 3¾ lbs $4.60

One Dozen in a Cardboard Box.

SIMMONS LACLEDE*.

Per Dozen

No. 1—NICKEL PLATED; Extra Quality Cast Steel; Case Hardened Jaws, Length 5 in.; Jaws Open 1½ in.; Weight per dozen about 4½ lbs. $3.60

One Dozen in a Cardboard Box.

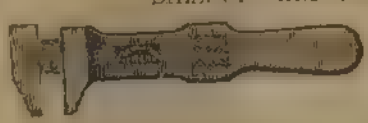
BAY STATE*.

Per Dozen

No. B08—FROST FINISH; Cast Steel, Length 5½ in.; Jaws Open 1⅝ in.; Weight per dozen about 4½ lbs. $1.70

One Dozen in a Cardboard Box.

BILLINGS AND SPENCER'S.

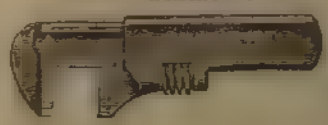


Per Dozen

No. BS — NATURAL FINISH Cast Steel Case-Hardened Jaws, Front Jaw and Bar One Piece, fitting into Hollow Handle, Bar Graduated on one side up to ⅝ in. in 8ths, 16ths and 32nds; Length Closed, 6 in.; Jaws Open 2 in. Weight per dozen about 9 lbs. $15.00

One-twelfth Dozen in a Cardboard Box.

BILLINGS' AND SPENCER'S.



Per Dozen

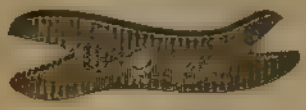
No. 07—NICKEL PLATED Cast Steel; Case-Hardened Jaws; Front Jaw and Bar One Piece, fitting into Hollow Handle; Length, Closed, 4½ in.; Jaws Open 1½ in.; Weight per dozen about 4½ lbs. $10.30

One-twelfth Dozen in a Cardboard Box.

WRENCHES.

KEEN KUTTER* BOLT WRENCHES.

Forged from Tool Steel; Tempered and Hardened Jaws and Thread Cutters.



Per Dozen

No. K23—KEEN KUTTER*: COMBINATION BOLT WRENCH AND THREAD CUTTER; Length over all 5⅝ in.; Straw Finish, Will Hold Round Iron ¼ to ⅜ in.; Size of Thread Cutters ½, ⅝ and 5/16 in.; Weight per dozen about 5 lbs. $4.20

One Dozen in a Cardboard Box.

KEEN KUTTER* SURE GRIP.

Forged from Special Crucible Steel; Oil Tempered; Milled Teeth.

Per Dozen

No. K15—LENGTH 4 IN.; NATURAL FINISH; Holds Pipe ½ in. and Smaller; Openings in Handle for ¼, 5/16 and ⅜ in Nuts; Screw Driver End 5/16 in. Wide at Point. Weight per dozen about 1½ lbs. $1.90

LENGTH 5½ IN.; Holds Pipe ⅜ in. and Smaller; Openings in Handle for ¼, ⅜, ½, ⅝ and ¾ in. Nuts.

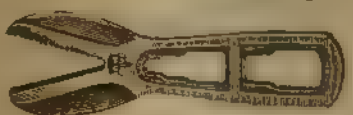
Per Dozen

No. K20—NATURAL FINISH $2.20

No. K30—NICKEL PLATED 3.80

Weight per Dozen about 3¾ lbs.

One Dozen in a Cardboard Box.



Hand Forged Finish; Polished Ribs

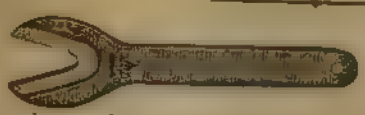
Per Dozen

No. K40 — LENGTH 5½ in.; Holds Pipe ⅜ in. and Smaller. Openings in Handle for ¼, ⅜, ½, ⅝ and ¾ in. Nuts; Weight per dozen about 4 lbs. $3.30

One Dozen in a Cardboard Box.

No. K50—LENGTH 7 IN.; Holds Pipe ⅜ to ¾ in. Openings in Handle for ⅜, ½, ⅝, ¾ and ⅞ in. Nuts. Weight per dozen about 9 lbs. $4.80

One-half Dozen in a Cardboard Box.



Natural Finish; Raised Surface; Polished.

Per Dozen

No. K60—LENGTH 9 IN.; Holds Pipe ⅜ to ¾ in.; Weight per dozen about 12 lbs. $6.00

No. K70—LENGTH 16 IN.; Holds Pipe ½ to 1¼ in. Weight per dozen about 39 lbs. 14.00

One-half Dozen in a Cardboard Box.

Per Dozen

No. K80 — LENGTH 10 IN.; NATURAL FINISH; Raised Surface Polished Holds Pipe ¾ in. and smaller; Weight per dozen about 15 lbs. $10.00

One-half Dozen in a Cardboard Box.

OAK LEAF*, DUCK BILL.

Forged from Extra Quality Tool Steel, Oil Tempered; Natural Finish Knurled Body; Raised Surface of Jaws and Edges Nickel Plated; Milled Teeth on One Jaw of each End.

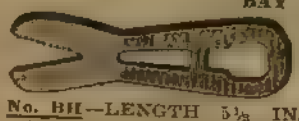
Per Dozen

No. EDJ—LENGTH 5 IN.; Holds Nuts or Pipe ¼ to ⅜ in.; Weight per dozen about 6 lbs. $5.90

No. EDS—LENGTH 7 IN; Holds Nuts or Pipe ¼ to 1⅛ in.; Weight per dozen about 13 lbs. 7.50

One-half Dozen in a Cardboard Box.

BAY STATE*



Forged from Tool Steel, Tempered; Natural Finish; Polished Jaws; Milled Teeth.

Per Dozen

No. BH—LENGTH 5½ IN.; Holds Pipe ⅜ in. and Smaller. Openings in Handle for ¼, ½ and ¾ in. Nuts, Weight per dozen about 3½ lbs. $1.70

One Dozen in a Cardboard Box

WRENCHES.

ALWAYS READY.

Forged from Tool Steel; Full Nickel Plated, Hardened Jaws, with Milled Teeth on One Jaw at each End.

Nos.	1A	3A
	5	7
Length over all, inches	5	7
Holds Nuts or Pipe, inches	¼ to ⅜	¼ to 1¼
Weight per dozen about, lbs.	6	10½
Per dozen	$5.70	7.50

One-half Dozen in a Cardboard Box.

Forged from Tool Steel; Combination Nut and Pipe Wrench and Thread Cutter; Tempered and Hardened Jaws and Thread Cutters; Milled Teeth on One Jaw on each End; Holds Nut or Pipe ⅜ to 1 in.; Holds Round Iron from 3/16 to 1⅛ in.; Thread Cutters will Cut ¼x13, 5/16x16, 3/8x18 Threads.

Per Dozen

No. H—HAWKEYE PATTERN; GUN METAL FINISH, Length over all 8 in.; Weight per Dozen about 12 lbs. $7.50

One-half Dozen in a Cardboard Box.

KEEN KUTTER*; ADJUSTABLE ALLIGATOR.

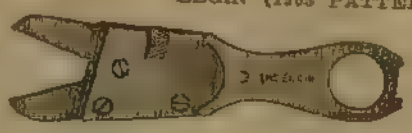
Handle and Jaws Drop Forged from Highest Grade Crucible Tool Steel; Jaws Hardened; Plain Jaw and Handle in One Piece; Adjustable Toothed Jaw, regulated by Knurled Adjusting Screw in Frame, which can be replaced in case of wear or breakage; Malleable Iron Frame; All Parts held by Steel Screws; Nickel Plated Throughout, with Polished Frame and Jaws.

Per Dozen

No. KA7—KEEN KUTTER*; 7 IN. LONG; Holds Pipe up to ⅜ in. and Nuts up to 1⅛ in.; Weight per dozen about 9 lbs. $14.00

One-twelfth Dozen in a Cardboard Box.

ELGIN (1905 PATTERN).



Cast Steel, Full Nickel Plated; Hardened Jaws, with Milled Teeth; Jaws can be Closed by Adjusting Screw or by pressing on Upper Jaw; Lower Jaw and Handle One Piece, Reinforced at Jaws by Heavy Steel Plate, Screwed to Body, Hole in Handle for Threading Attachment, as shown below, particularly adapted for use in corners and cramped places.

Per Dozen

No. AE—ADJUSTABLE; LENGTH 7 IN.; Holds Pipe up to ¾ in. and Nuts up to 1⅛ in.; Weight per dozen about 7½ lbs. $13.50

One Dozen in a Cardboard Box.

Showing Extra Jaw for Elgin.

Showing Elgin Threading Attachment.

Showing Extra Dies for Elgin Threading Attachment.

No. EJ—Extra Jaws for No. AE Wrench; Same Finish as Wrench. Length 2 in. Weight per dozen about 1 lb $3.50

No. ETA—Extra Threading Attachments for No. AE Wrench; Nickel Plated, Complete with One Natural Finish Tool Steel Hardened Die, in any of the Sizes as Listed Below. By Pressing on Small Thumb Knob, Die is made to work Ratchet; Used for Threading Bolts or Repairing Damaged Threads on Bolts; Length 3½ in.; Weight per dozen about 1 lb. $12.50

DIES FOR NO. ETA THREADING ATTACHMENT.

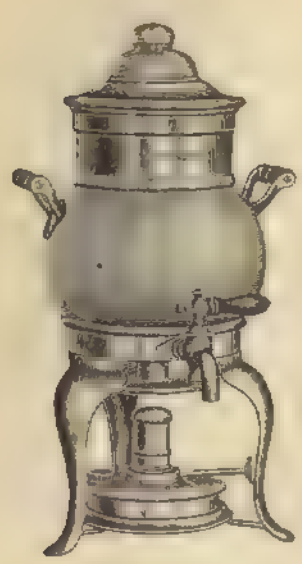
Tool Steel, Natural Finish, Hardened; Standard Carriage Bolt Threads.

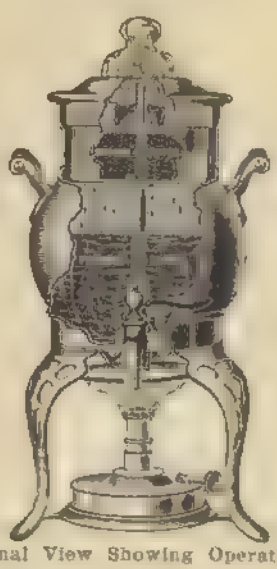
Nos.	ED1/4	ED5/16	ED3/8	ED7/16	ED1/2
Size, inches	¼	5/16	⅜	7/16	½
Per dozen	$7.00	7.00	7.00	7.00	7.00

Weight per Dozen about 1 lb.; One Dozen in a Cardboard Box; Specify Size of Die when Ordering.

COFFEE PERCOLATING MACHINES

UNIVERSAL



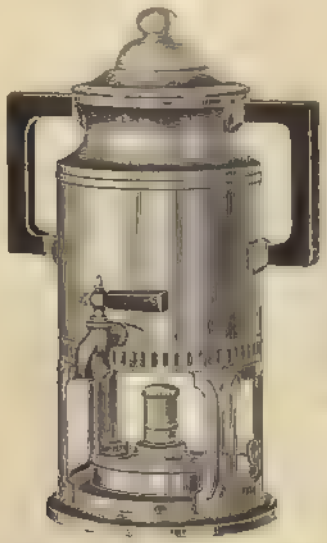


Sectional View Showing Operation

One Piece Seamless Copper Body, Heavy Nickel Plating, Pure Tin Coating on Inside, Aluminum Spreader Plate, Tube and Valve, Effective Lamp, All Parts Interchangeable, Ebonwood Handles

No.	06N	Nos.	606N	609N
Pints	3	Pints	3	4
Capacity, Cups	6	Capacity, Cups	6	9
Weight Each, Lbs.	7¾	Weight Each, Lbs.	11	12
Each	$10 00	Each	$13.75	15.00
			15 00	16.50

The Universal Coffee Machines excel all other ways of making coffee because the percolation is complete before the water boils. Coffee made in them is easily known by its delicious aroma, fine flavor and the absence of bitter taste, caused by boiling



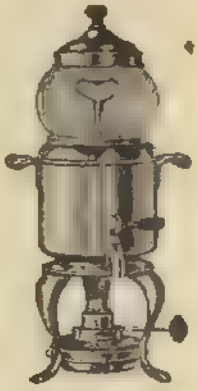
Note—No 136N Coffee Machine differs from other Universal models in that the coffee pot is removable from the stand, so that coffee can be made on the stove and kept warm on the table.

Heavy Copper, Heavily Nickel Plated, Inside Heavily Coated with Pure Tin, Ebonwood Handles	706N
No.	706N
Capacity, Cups	6
Weight Each, Lbs.	8¾
Each	$12.50
	14.00

Heavy Copper, Heavily Nickel Plated, Inside Heavily Coated with Pure Tin, Ebonwood Handle	136N
No.	136N
Capacity, Cups	6
Weight Each, Lbs.	8
Each	$11 35
	12.50

One in a Wooden Box

COFFEE MACHINES



Solid Copper, Pure Tin Lined, Ebonized Wood Handles, Regulating Alcohol Vapor Burner

No.	3002
Capacity, Cups	9
Weight Each, Lbs.	5½
Each	$9 00

One in a Pasteboard Box

SAMOVARS

UNIVERSAL

Heavy Copper, Heavily Nickel Plated

Inside Heavily Coated with Pure Tin, with Tea Ball Inside of Top, which can be Fastened before and after Immersion and can be Lowered into the Freshly Boiled Water. Provided with Small Alcohol Lamp.

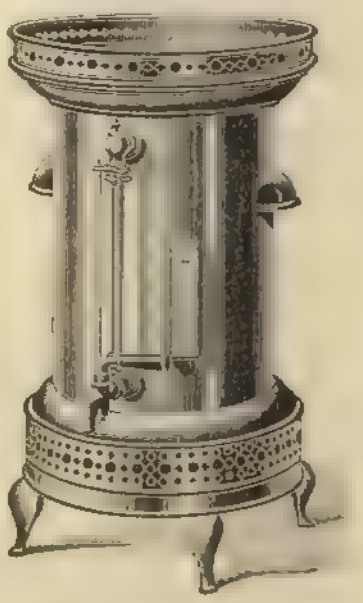
	Each
No. 6066N—Capacity 6 Cups	$10.00
	12 50

Weight Each 8 Pounds

This machine makes perfect tea as in no other way. A lamp that boils the water in 7 minutes, a faucet to draw from, for afternoon tea or tea at any time.

One in a Wooden Box

HOT WATER URNS



With Low Base and Feet

Nickel Plated Copper, Polished

Provided with Gauge, with Lever Handle Faucet, Side Handles for Carrying, Thermometer to Show Temperature, Tumbler Warming Rack on Top to Hold Glasses, etc.

Nos.	2072	2073	2074
Gallons	3	5	4
Height, Inches	21	22	23
Diameter, Inches	10½	11½	12½
Weight Each, Lbs.	19	22	30
Each	$9 50	10 50	11 50
	11 50	12 50	13 50

Each

No. 9 Burners For Gas Line $3 50

One in a Box

COFFEE PERCOLATORS

UNIVERSAL

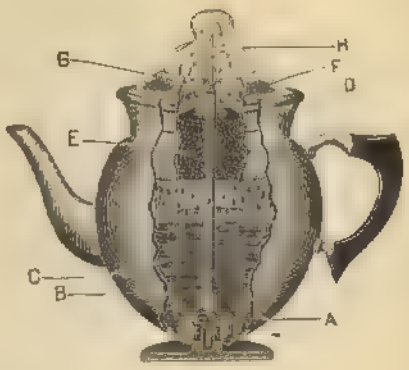
The "Universal" owes its acknowledged superiority to its patented valve and pumping process which circulates from six to ten times more water than any other percolator.

Its patented filter cup cover evenly distributes the water over all the coffee and extracts a greater amount of coffee essence or strength from each grain

Percolation is completed before the boiling point is reached, thus eliminating the evil effects and unpleasant taste of boiled coffee.

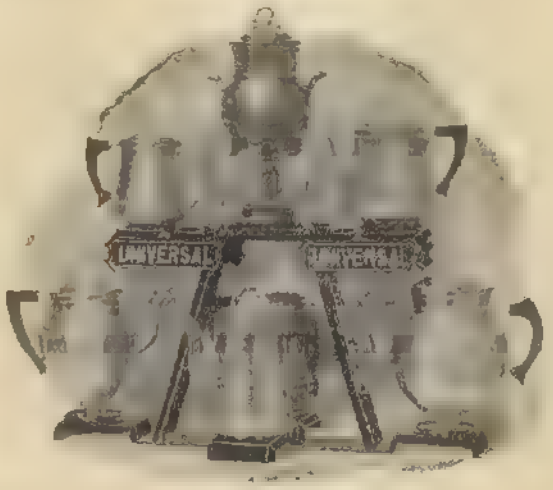
Superior in every mechanical feature, economical in the small amount of coffee used, efficient in that it makes a more delicious, aromatic beverage at a minimum expense and in less time than any other Percolator.

The "Universal" saves its cost many times over.



UNIVERSAL DISPLAY STAND FOR PERCOLATORS

All Steel Display Stand, Black Japanned and Gilt



It is surely true that Goods Well Displayed are Half Sold

We Will Include this Beautiful Display Stand with First Order for 1 Dozen or More Universal Percolators

"UNIVERSAL" COFFEE PERCOLATOR PARTS

	Each			Each	
Body	$2.00	$3 35	Perforated Spreader Plate	$0 15	$0 25
Ebonized Handle	.15	.25	Tube Complete with Valve	50	85
Handle Brackets (10c Each)	20	.35	Valve Cap	15	.25
Spout and Nut	.50	85	Valve and Valve Seat	15	25
Base or Heater Plate	50	85	Stove Plate	20	.35
Aluminum Top for Cover	15	25	Buffing	25	45
Filter Cup	35	60	Enameled Body with Spout and Handle	2 00	3.35

Per Dozen

Extra Glass Tops Complete for All Universal Percolators and Percolating Machines, Both Electric and Alcohol $1.00

COFFEE PERCOLATORS

UNIVERSAL

The Universal excels all other ways of making coffee.

Because it pumps while the water is heating and completes the percolation before the water boils

Heavy Copper, Inside Coated with Pure Tin, Interior Parts Pure Aluminum, Ebonwood Handle

	Polished Copper		Nickel Plated	
Nos.	266P	269P	266N	269N
Pints	3	4	3	4
Capacity, Cups	6	9	6	9
Weight Each, Lbs.	5	6	5	6
Each	$6.25	7.25	$6.25	7.25
	7.50	8.50	7.50	8.50

Pure Aluminum, Highly Polished, Ebonized Handle

Nos.	64	66	69	614
Pints	1½	3	4	6
Capacity, Cups	4	6	9	14
Weight Each, Lbs.	5½	6¼	7	8
Each	$3.50	4.00	4.50	5.00
	4.90	5.60	6.30	7.00

Copper Body and Cover, Nickel Plated, Inside Coated with Pure Tin, Interior Parts Pure Aluminum, Ebonwood Handle

Nos.	52	54	56	58	510
Capacity, Cups	2	4	6	8	10
Weight Each, Lbs.	4½	5	5½	6	6½
Each	$2.50	2.75	3.00	3.50	4.00
	3.50	3.90	4.20	4.90	5.60

UNIVERSAL

Highest Quality Porcelain Enamel, Outside Blue with White Veins, Inside White All Working Parts

	Pure Aluminum			
Nos.	1104	1106	1109	1114
Capacity, Cups	4	6	9	14
Weight Each, Lbs.	5	5½	6	7
Each	$2.50	3.00	3.50	4.00
	3.50	4.20	4.90	5.60

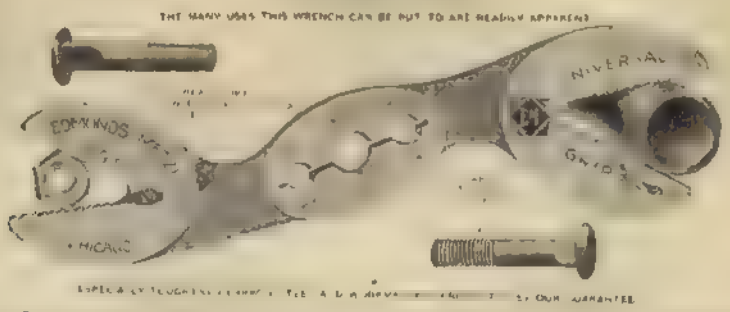
COLUMBIA

Copper Body, Nickel Plated, Inside Coated with Pure Tin, Pure Aluminum Filter Cup and Spreader Plate, Ebonwood Handle

Nos.	1044	1046	1048
Capacity, Cups	4	6	8
Weight Each, Lbs.	5	5½	6
Each	$2.80	3.00	3.20

WRENCHES

UNIVERSAL GRIP



Best Grade Drop Forged Steel, Tempered, Nut Wrench, Pipe Wrench and Thread Cutter

	Per Dozen
Universal Grip 8½ in Long Takes ¼ to ¾ in Pipe, Threads ¼, ⅜ and ½ in Bolts, Oil Finished Polished Jaws	$6 00

This Wrench has many Useful Points It will serve any Purpose any other Wrench on the market will, and three things more, viz Cut Threads on three size Bolts, which may be found very handy when putting up Steel Framed Farm Machinery etc The Dies will restore Threads that are battered This Wrench should be in the hands of every Blacksmith and Farmer handling machinery.

Weight Per Dozen 13 Pounds
One-half Dozen in a Box

BRACE WRENCHES

STANDARD SQUARE

Malleable Iron, Japanned and Polished

Size, Inches....	⅜	½	⅝	¾	⅞	1
Wt Doz., Lbs .	1¾	2½	3¾	4¾	5½	6½
Per Dozen ...	$3.50	4 00	5.00	6 00	7.00	8 00

One Dozen in a Box

STANDARD HEXAGON

Malleable Iron, Japanned and Polished

Size, Inches....	¼	⅜	½	⅝	¾
Wt Doz., Lbs..	2	3	4	5¾	8½	9½
Per Dozen	$4 00	4.80	6 00	7.20	8 40	9.60

One Dozen in a Box

FARMERS' WRENCHES

Malleable Iron

Nos.	9	11
Length, Inches	9	11
Openings, Inches	½ & ¾ ⅝, 1	⅝ ¾ & ⅞ 1 1¼
Weight Per Dozen, Lbs	10	12
Per Dozen	$1 50	2 00

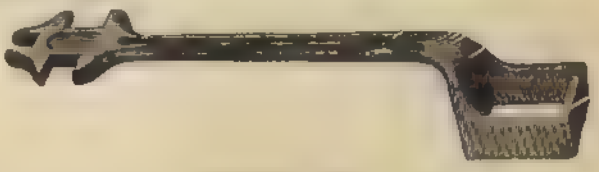
Open Stock

BUGGY WRENCHES

Malleable Iron

Nos.	6	7	8½
Length, Inches	6	7	8½
Openings, Inches	⅜ & ½	½ & ⅝	⅝ & ⅞
Weight Per Dozen, Lbs..	4	6½	8
Per Dozen	$0.80	1 20	1 50

Open Stock



Malleable Iron

Nos.	9	9½	9½	10
Length, Inches.	9	9¼	9½	10
Axle Nut, In...	⅝	1	1⅛	1¼
Openings, In...	½, ⅝, ¾	½, ⅝, ¾	½, ⅝, ¾	½, ⅝, ¾
Wt Doz., Lbs..	6	6½	7	10
Per Dozen	$1.00	1.20	1.40	1 50

Open Stock

WRENCH SETS

THIN SIX

Cut Shows No 35 Set

Drop Forged Steel, Finished
U. S. Standard Milled Openings

Per Set

No. 34 Set—Consists of Six Thin Drop Forged Double Head Wrenches, One Each Nos. 623D, 626X, 628, 629D, 634 and 635 E, as Described Below, Put Up in a Neat Canvas Roll $4 00

Description of Wrenches Contained in No. 34 Set

Nos.	For Nuts: Small Head, Inches.	For Nuts: Large Head, Inches.	For Cap Screws: Small Head, Inches	For Cap Screws: Large Head, Inches	Opening, Inches	Length, Inches
623D		1/4	1/4		7/16 & 1/2	4 3/8
626X		5/8	5/8		9/16 & 5/8	5 1/2
628	7/16	1/2			1/2 & 9/16	4 1/2
629D			7/16	1/2	5/8 & 3/4	6 7/8
634	1/2	5/8	5/8		7/8 & 1	8 1/2
635E		3/4	3/4	1	1 & 1 1/4	10 3/4

BIG SIX

Drop Forged Steel, Finished
U. S. Standard Milled Openings

Per Set

No 4 Set—Consists of Six Drop Forged Double Head Wrenches, One Each Nos. 725, 27C, 28, 729, 34 and 736, as Described Below, Put Up in a Neat Canvas Roll..... $5 00

Description of Wrenches Contained in No 4 Set

Nos.	For Nuts: Small Head, Inches	For Nuts: Large Head, Inches.	For Cap Screws: Small Head, Inches.	For Cap Screws: Large Head, Inches	Opening, Inches	Length, Inches
725		1/4	1/4		7/16 & 1/2	4 7/8
27C		3/8	3/8		7/16 & 1/2	5 7/8
28					1/2 & 9/16	6 7/8
729			7/16	1/2	5/8 & 3/4	6 7/8
34	1/2	5/8	5/8		7/8 & 1	7 3/4
736		3/4	3/4	1	1 & 1 1/4	11 1/2

THIN FIVE

Drop Forged Steel, Finished

A. L. A. M. Standard Milled Openings

Per Set

No. 35 Set—Consists of Five Thin Drop Forged Wrenches, One Each Nos. 623E, 626X, 629E, 632X and 635G, as Described Below, Put Up in a Neat Canvas Roll $3 50

Description of Wrenches Contained in No 35 Set

Nos.	A. L. A. M. Nuts and Cap Screws, Inches.	Openings, Inches	Length, Inches
623E	1/4 & 5/16	3/8 & 1/2	4 3/8
626X	3/8 & 7/16	7/16 & 9/16	5 1/2
629E	1/2 & 5/8	3/4 & 7/8	6 1/2
632X	5/8 & 11/16	11/16 & 1	8 1/2
635G	3/4 & 7/8	1 1/8 & 1 1/4	10 3/4

An especially serviceable set combining seven most important Bolt sizes and eight most important Cap Screw sizes in six Wrenches

GENERAL SERVICE

Per Set

No. 7 Set—Consists of Seven Polished Special Tempered Steel Wrenches for Cap Screws and Hexagon Nuts, as Described Below, Put Up in a Neat Canvas Roll $2.50

Description of Wrenches Contained in No. 7 Set

Nos.	11	21	32	33
Openings, Inches	7/16 & 1/2	1/2 & 11/16	7/16 & 11/16	5/8 & 11/16
Length, Inches	5	6	7 3/4	7 3/4
Nos.	**34**	**43**	**61**	
Openings, Inches	3/4 & 7/8	7/8 & 1 1/16	1 & 1 1/4	
Length, Inches	7 3/4	9 1/2	11	

HANDY SET

Handy Set—Special Tempered Steel, Nickel Plated, Spring Wedge Clamp, Weight Each 10 Oz. Nine Wrenches in One. Just the Thing for Thin Nuts, Rod Nuts, Auto Nuts, ... Per Dozen ...$12 00

One Dozen in a Box

BICYCLE CYCLOMETERS

REGULAR

VEEDER

Veeder Cyclometers are as Accurately Made as Watches, but Contain no Springs to Cause Trouble. They are Dust and Water Proof and Cannot Skip; Neither Can they Register too much. The Crystals are Clear and Thick, when in Use the Record can be Read Easily from the Saddle; Every One is Thoroughly Tested at the Factory

REGULAR

Each

No. VR—Registers Mileage up to 10,000, then Automatically Commences Again; Full Nickel Plated; can be Attached to Any Bicycle; Weight 2 ozs. $1 15 1 20

TRIP

No. VT The Large Dial Registers the Total Mileage up to 10,000, the Small Dial Registers the Trip Mileage up to 1,000, after Registering a Total of 10,000 Miles it Automatically Commences Again. Full Nickel Plated, can be Attached to Any Bicycle, Weight 4 ozs. 2 50 2 00

One in a Box; Twelve in a Carton

The Figures in Black Indicate Miles; the Figures in Red Indicate Tenths of Miles

TRIP

MOTORCYCLE CYCLOMETERS

VEEDER

Veeder Cyclometers are as Accurately made as Watches, but contain no Springs to cause trouble. They are Dust and Water Proof and cannot Skip; neither can they register too much. The Crystals are Clear and Thick; when in use the Record can be read easily from the Saddle; every one is thoroughly Tested at the Factory

TRIP

Made Larger and Stronger than the regular Bicycle Cyclometer, to withstand the harder Usage to which a Cyclometer is subjected on the Motorcycle

Furnished complete with Adjustable Steel Bracket, Nickel Plated, which can be Adjusted to fit any American or Foreign Motorcycle, also, Extra Heavy Strikers for Motorcycles

Each

No. VM—For 28 Inch Wheels; the Large Dial Registers the Total Mileage up to 10,000, the Small Dial Registers the Trip Mileage up to 1,000; after Registering a total of 10,000 miles it Automatically commences again. Full Nickel Plated, can be Attached to any Motorcycle, Weight 4 ozs. $3 50 3 00

Can be Furnished for 24 and 26 Inch Wheels by Shipping direct from Factory, Hartford, Conn.

One in a Box; Twelve in a Carton.

The Figures in White Indicate Miles, the Figures in Red Indicate Tenths of Miles.

CYCLOMETER BRACKETS

Each

No. VCB—Stamped Steel, Bright; Complete with Bolt and Nut $0 50

Loose

CYCLOMETER SPOKE PINS

Each

No. VCS—Spoke Pins or Strikers, Milled Steel, Bright; Complete with Set Screw and Brass Spoke Roller $0 50

Loose

MOTORCYCLE WATCHES

FIAT

Each

No. FB—Polished Solid Brass Case, Holding a Complete One Day Movement Watch, Stem Wind and Set, 1¼ inch White Dial, Size of Case 2⅛ inches in Diameter, Weight 8 ozs $3 65

One in a Box

NEBO

Each

No. NB—Polished Solid Brass Case Holding a Complete Watch, One Day Time, Stem Wind and Set, 1⅝ inch Dial, Height 2⅞ in.; Width 2⅜ in., Weight 12 ozs. $3 65

One in a Box

"Diamond Edge is a Quality Pledge"

REPAIR TOOLS

Per Dozen

No. J—Copper-ed Steel Wire; Tempered Points; Used for Holding and Inserting Rubber Bands in Punctured Tires. Weight per Dozen 2 oz $1 10

One Dozen in a Box

Per Pound

No. RB—Rubber Bands only for plugging punctured tires. . . Loose $6.00

CURTIS

Per Dozen

No. C Tempered Steel Needle, with Bright Steel Wire Handle, used to plug punctured tires with rubber bands; Length 4 in., weight per Dozen 2 oz $1 15

One Dozen in a Box

WALD

Per Dozen

No. W 4¾ Inches Japanned Steel for holding and inserting rubber bands in punctures, with automatic device for releasing bands when in position. Weight per Dozen 18 oz $4 00

One Dozen in a Box

GRISWOLD

For Inserting Plugs in Single Tube Tires; Stamped Steel and Brass; Light and Practical; Easily Carried in Tool Bag

Per Dozen

No. G Length 4 inches; Weight per Dozen ¾ lb $5 00

One in a Carton; One Dozen in a Box

BICYCLE PLIERS

TOOL BAG PLIERS Per Dozen

No. 1—4½ in. Bright Steel, Flat Handles, Jaws 1 inch long Weight per Doz ¾ lb $1 35

Loose

CONE PLIERS Per Dozen

No. 75—7½ inch Drop Forged, Polished, Jaws ⅝ inch thick Weight per Dozen 3 lbs. $17 20

Loose

NOONAN PLUG PLIERS Per Dozen

No. 4—5½ in. Long with 7/64 inch Steel Jaws for inserting rubber plugs. Wt per Dozen 2¼ lbs. . . . $14.36

Loose

STEWART MOTORCYCLE SPEEDOMETERS

A Speedometer Designed Expressly for Motorcycle Use. The Same Beautiful Workmanship, the Same High Grade Materials and Simple Construction that are Embodied in the Stewart Automobile Speedometers.

The Instrument is Absolutely Accurate and Steady at all Speeds on the Roughest Roads. The Odometer is the Same Odometer as used in the Automobile Instrument — Positive Drive — No Possibility of the Discs Slipping or Registering Inaccurately. There is a Season Odometer with Capacity of 100,000 Miles and Repeat; Trip Register of 100 Miles which can be Reset to any Tenth of a Mile.

The Instrument is Protected with a Metal Shield over the Glass Dial, with Openings through which the Speedometer and Odometer are Read. An Excellent Protection against Accident.

The Driving Equipment. There is but One Safe, Practical Method for Driving a Speedometer on a Motorcycle; and that is, by means of Belt and Pulleys from Front Wheel—a Method that we have Thoroughly Tested and which has proved the Most Satisfactory and Durable of all Methods. The Movement of the Spring Fork must be provided for, and this movement cannot be Properly Taken Care of by Means of an Ordinary Flexible Shaft. The Belt Drive is Simple—Nothing to get Out of Order, and once Installed, it can be Forgotten. The Speedometer is to be Installed on the Mudguard or Extension Spring as shown in the Illustration, where it can be most Easily Read from the Driver's Seat. In this Position it is out of Harm's Way, and is at All Times in Proper Alignment to the Driving Equipment, while on the Handle Bar it is being Continually Whipped from One Side to the Other, Imposing a Constant and Needless Strain on the Driving Apparatus.

Each

No. D—Rotation Dial, 3-inch Dial, 75-mile Speedometer, 100,000-mile Season Odometer, 100-mile Trip Register, without Grade Indicator, Front Wheel Double Belt Drive. . $17.00 12.00

State Make of Motorcycle when Ordering

Razor Assortments and Wade & Butcher Razors

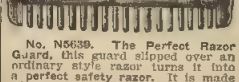
This well-known brand strongly appeals to certain class of trade that buy these goods for their favorable reputation.

MERCHANTS RAZOR ASSORTMENTS

No. N5620. Razor Assortment, contains 6 razors, plain and carved black handles, plain and fancy celluloid handles, bamboo style handle and one transparent handle, in all 6 excellent full hollow ground razors of reliable quality; an excellent lot for dealers, in satin lined leatherette box; a rich outfit.
Per assortment of 6 razors.... 2.50

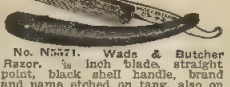
No. N5621. Razor Assortment, contains 6 fine quality razors, one plain white handle, one plain black handle and 4 fancy carved and pearl handles. Full hollow ground, made of guaranteed razor steel, best of finish and workmanship; in satin lined leatherette box
Per assortment of 6 razors.... 3.75

Razor Guard



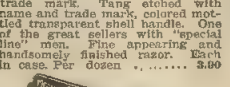
No. N5639. The Perfect Razor Guard, this guard slipped over an ordinary style razor turns it into a **perfect safety razor.** It is made of steel, handsomely finished and nickelplated and is adjustable and reversible. Fits perfectly over any style razor and always set at the proper angle in which a razor should be held in correct shaving. Directions for attaching with each, each in carton, 1 dozen in box.
Dozen 2.00

No. N5570. Wade & Butcher's ⅝ inch square end polished, India steel blade, etched, "You lather well, I'll shave well," transparent, brass riveted horn handle. Each in box.
Doz. 3.50

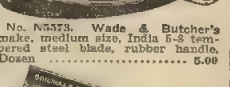


No. N5571. Wade & Butcher Razor. ⅝ inch blade, straight point, black shell handle, brand and name etched on tang, also on blade in ornamental design, well finished and polished. Each in case. Per dozen 3.50

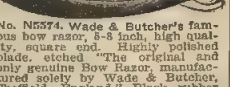
No. N5572. Wade & Butcher Razor. Glazed polished blade both sides except etching, hollow point, ⅝ inch, etched the "clean Shaver" in a ribbon design with arrow and trade mark. Tang etched with name and trade mark, colored mottled transparent shell handle. One of the great sellers with "special line" men. Fine appearing and handsomely finished razor. Each in case. Per dozen 3.00



No. N5573. Wade & Butcher's make, medium size, India 5-8 tempered steel blade, rubber handle, Dozen 5.00



No. N5574. Wade & Butcher's famous bow razor, 5-8 inch, high quality, square end. Highly polished blade, etched "The original and only genuine Bow Razor, manufactured solely by Wade & Butcher, Sheffield, England." Black rubber handle, hollow ground. Doz. . 7.50



No. N5575. Wade & Butcher Razor. Full hollow ground, straight point, ⅝ inch etched in black on blade, name and brand stamped on tang, blade polished both sides, fine black rubber handle. A number well known for its quality. Each in gold stamped case. Per dozen..... 8.50

No. N5576. Wade & Butcher Razor. The Arrow Brand. Etched in black, extra hollow ground, name and brand stamped on the tang, full polished on both sides, straight point, ⅝ inch, black rubber handle. One of their reputable makes. Each in case. Per dozen 9.00

No. N5577. Wade & Butcher Razor. Full hollow ground, polished both sides, plain blade, etching on tang "Special" with trade mark on one side, name on the other, straight point ⅝ inch, black rubber handle. This is a special both in the fine finish and excellent quality, surpasses many higher grade goods. Each in case. Per doz 11.50

No. N5578. Wade & Butcher Razor. Full hollow ground, polished on both sides also tang. Name and brand stamped on tang, with "Nothing Better" etched in gold on blade, black celluloid full polished handle. One of the good brands of this make. Each in case, ⅝ in. straight point.
Per dozen 12.50

No. N5579. Wade & Butcher Razor. Full hollow ground, polished on both sides, no etching on blade, tang etched "Special" on one side, name on the other. White celluloid imitation Ivory handle, gold stamped. This is the well-known Arrow brand, famous for the extra fine quality of steel, straight point, ⅝ inch. Each in case. Per dozen 13.50

No. N5580. Wade & Butcher Razor. Extra fine quality, full hollow ground, high gloss polish on both sides and tang, word "Special" etched on blade, in a good design with arrow trade mark, name and trade mark etched on tang, white celluloid handle, raised ornamental floral design, imitation ivory. This is one of the special grades of this make that never fails to please. Quality and finish would be hard to surpass. Each in case, ⅝ inch straight point. Doz . 16.00

WASHING MACHINES

SUCTION WASHER

Each

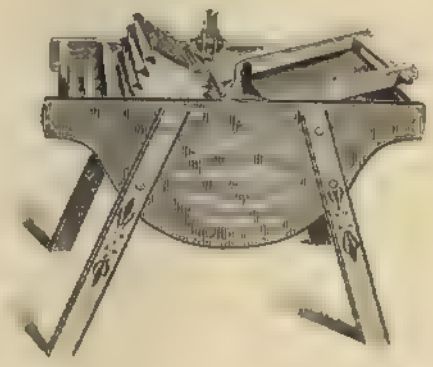
No. 10—7 in. Diameter at Bottom, 8 in. High, Bright Heavy Tin, Seamed and Soldered, with 36 in. Wood Handle..... $3 00

Washes clothes in a tub, pail or wash boiler, removing all dirt quickly and easily. Cleans by compressed air action. Stamping the clothes with the device forces the water and soap through the fabric, thoroughly and entirely removing the dirt.

Weight Per Dozen 36 Pounds

Open Stock

SUPERIOR



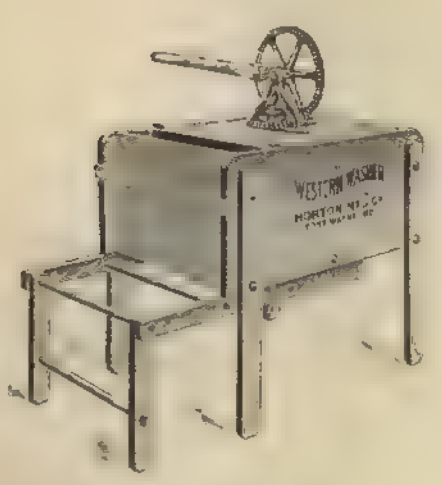
Each

No. 15—Kiln Dried Arkansas Cottonwood, Natural Wood Finish, Removable Corrugated Wood Bottom Rubber..... $6 00

Will not warp, split or decay like those made of red gum lumber. Has a removable bottom rubber, which gives an opportunity for thorough cleansing

Weight Each, Crated, 40 Pounds

WESTERN



Each

No. 2—Small Family Size, Gum Wood, Mortised, Natural Wood Finish, Corrugated Inside Sides and Bottom, Black Japanned Castings, Legs Secured by Bolts, Sunken Wood Wringer Box . . $7 50

Weight Each Crated 60 Pounds

AMERICAN

Each

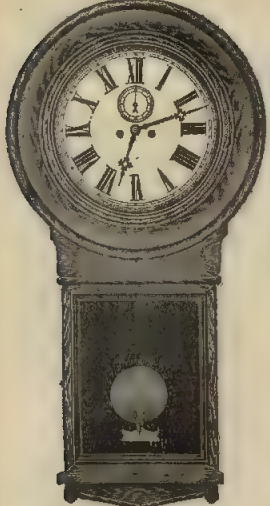
No. 4—Best Grade Louisiana Cypress Tub, Natural Wood Finish, Corrugated Inside Sides and Bottom, Black Japanned Castings.....$7.50

Has a lever motion mechanism and is strong and simple. The post which connects dasher with gearing is made of iron, galvanized, and will not rust or wear.

Weight Each, Crated, 50 Pounds

Regulators Made by the Waterbury Clock Co.

PRICES EACH.



No. 90 **REGULATOR.** $31.70

Oak, eight-day, weight, time, dead-beat escapement, retaining power, solid movement, frames, 12-inch dial, height, 28 inches.

No. 67 **REGULATOR.**

Eight-day, weight, time, dead-beat escapement, retaining power, solid polished movement frames, 12-inch dial, height, 50 inches; width, 22 inches.

Oak or walnut . . . $40.00
Mahogany . . . 45.00

No. 53 **REGULATOR.** $45 90

Quartered oak, eight-day, weight, time, brass weights, dead beat escapement, retaining power, solid polished movement frames, 10-inch dial, height, 53¾ inches; width, 19⅜ inches.

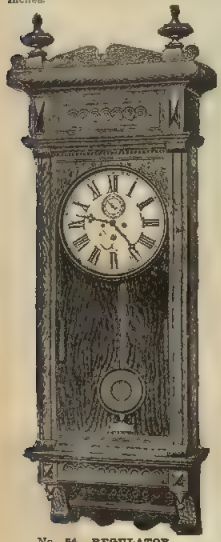
BRETON.

Oak or mahogany, glass sides, eight-day, spring time, 8-inch dial, height 44⅝ inches, width 14⅛ inches.

Oak . . . $24.15
Mahogany . . . 28.35

Eight day, spring, half-hour strike, gong

Oak . . . $26.70
Mahogany . . . 30.85



No. 54 **REGULATOR.**

Eight-day, weight, time, brass weights, dead-beat escapement, retaining power, solid polished movement frames, 12-inch dial; height, 67 inches; width, 21¼ inches.

Quartered oak . . . $33.35
Mahogany . . . 31.70

PASTORIA.

Oak, walnut or mahogany, eight-day, spring, time, 12-inch dial, height 45¾ inches, width 16⅛ inches.

Oak or walnut . . . $22.90
Mahogany . . . 27.10

Eight-day, spring, half hour strike, gong

Oak or walnut . . . $25.40
Mahogany . . . 29.60

Thirty day, spring, time, with second hand

Oak or walnut . . . $26.25
Mahogany . . . 30.40

PICTOU.

Oak or mahogany, glass sides, eight-day, spring, time, 10-inch dial, height 50¾ inches, width 16⅞ inches.

Oak . . . $26.70
Mahogany . . . 30.80

Eight-day, spring, half-hour strike, gong

Oak . . . $29.15
Mahogany . . . 33.35

DEVON.

Oak, 8-inch porcelain dial, Arabic figures, height 50⅝ inches, width 16⅝ inches.

Eight-day, spring, half-hour strike, gong . . . $30.40
Thirty-day, spring, time. . 31.25

REGULATORS

Made by the Seth Thomas Clock Co. PRICES EACH.

REGULATOR No. 30—$73.15

Cherry or old oak. Eight-day, weight time. 12-inch dial. Height, 49 inches, movement, 2½x4½ inches, lantern pinions, Graham pallets, brass covered zinc ball and wood rod. Eighty beats to the minute. Movement has retaining power.

REGULATOR No. 18—$64.75

Mahogany and old oak veneer, polished. Eight-day, weight, time. 14-inch dial. Height, 54 inches. Beats seconds. Movement has polished plates and is secured to an iron bracket, and pendulum is suspended from same. Wood rod, brass-covered zinc ball, Graham dead-beat escapement, maintaining power.

REGULATOR No. 11—$126.00

Mahogany and golden oak. Eight-day, weight, time. Beats seconds. 12-inch dial. Height, 68 inches. Large, cut steel pinion movement, with polished plates. Wood rod, brass-covered zinc ball. Graham dead-beat escapement, and maintaining power.

REGULATOR No. 25—$91.70

Cherry, mahogany finish and old oak. Eight day, weight, time. Beats seconds. 14-inch dial. Height, 62 inches. Large movement, wood rod, brass covered zinc ball, Graham dead-beat escapement, and maintaining power. The round top and two side pieces can be removed if a plain top case is desired.

FOUNTAIN PENS

Made by A. A. WATERMAN & CO.

No. 4816, with a No. 1 Pen, Full Size Holder, Black or Mottled..... each, $1.50
No. 4817, with a No. 3 Pen, Full Size Holder Black or Mottled..... each, 2.00
No. 4818, with a No. 5 Pen, Large Size Holder, Black or Mottled..... each, 2.50
No. 4819, with a No. 6 Pen, Large Size Holder, Black or Mottled..... each, 3.50

Same as Above, Mounted with 14K. Gold Filled Bands

No. 4820, with a No. 1 Pen, Full Size Holder, 14K. Gold Filled Bands..... each, $3.00
No. 4821, with a No. 3 Pen, Full Size Holder, 14K. Gold Filled Bands..... each, 3.75
No. 4822, with a No. 5 Pen, Full Size Holder, 14K. Gold Filled Bands..... each, 4.75

THE MODERN MIDDLE JOINT FOUNTAIN PEN

We Recommend this Pen Very Highly.

THE MIDDLE JOINT INSURES AGAINST FINGER STAINS FROM THE INK JOINT.

THE BARREL OR RESERVOIR CAN BE FILLED FULL.

No. 4823, with a No. 2 Pen, Full Size Holder..... each, $2.75
No. 4824, with a No. 3 Pen, Full Size Holder..... each, 3.50
No. 4825, with a No. 4 Pen, Full Size Holder..... each, 4.00
No. 4826, with a No. 5 Pen, Full Size Holder..... each, 4.50
No. 4827, with a No. 6 Pen, Large Size Holder..... each, 5.00
No. 4828, with a No. 7 Pen, Large Size Holder..... each, 6.00
No. 4829, with a No. 8 Pen, Large Size Holder..... each, 7.50

No. 4830, with a No. 2 Pen, 14K. Gold Filled Band..... each, $3.50
No. 4831, with a No. 3 Pen, 14K. Gold Filled Band..... each, 4.50
No. 4832, with a No. 4 Pen, 14K. Gold Filled Band..... each, 5.00
No. 4833, with a No. 5 Pen, 14K. Gold Filled Band..... each, 6.00
No. 4834, with a No. 6 Pen, 14K. Gold Filled Band..... each, 8.50

Illustration Showing 1 Dozen in Case.

With an order for 1 dozen A. A. Waterman Fountain Pens amounting to $25.00 list or more (as described on the foregoing pages) we loan a fine Show Case (see illustration).

The Pens may be one number, or assorted, at the Purchaser's option.

The Case is very handsome, of French Plate Glass, and is provided with Plush Lined Display Tray. With an order for $50.00 list or more we loan a case holding two dozen Pens (see illustration).

With an order for $75.00 list or more, we loan a case holding 3 dozen Pens, (see illustration).

With an order for $100.00 list or more, we loan a case holding 4 dozen Pens, (see illustration).

Illustration Showing 2 Dozen in Case.

With an Order for 3 Dozen or more A. A. Waterman Fountain Pens Amounting to $75.00 List or More, We give an Extra 10% Discount.

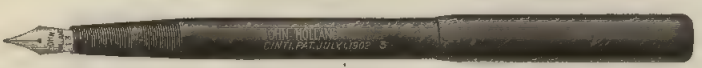
Illustration Showing 3 Dozen in Case.

Illustration Showing 4 Dozen in Case.

JOHN HOLLAND PATENT ELASTIC FEED FOUNTAIN PENS

Each Pen Guaranteed to give Perfect Satisfaction and at least Two Years' wear. Any of the following Sizes supplied in Plain or Chased Black or Mottled Holder

No. 4825 with **No. 2**, John Holland Fountain Pen, fitted with 14k. No. 12 gold pen, fine, medium or stub point .....each, $2.50



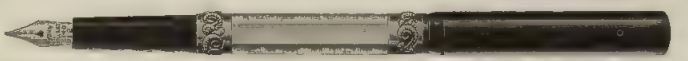
No. 4826 with **No. 3**, John Holland Fountain Pen, fitted with 14k. No. 13 gold pen, fine, medium or stub point .....each, $3.10

No. 4827 with **No. 4**, John Holland Fountain Pen fitted with 14k. No. 14 gold pen, fine, medium or stub point .....each, $3.75

No. 4828 with **No. 5**, John Holland Fountain Pen, fitted with 14k. No. 15 gold pen, fine, medium or stub point .....each, $4.35

No. 4829 with **No. 6**, John Holland Fountain Pen, fitted with 14k. No. 16 gold pen, fine, medium or stub point .....each, $5.00

No. 4840 with **No. 2**, Mtd. John Holland Fountain Pen, fitted with 14k. No. 12 gold pen, fine, medium or stub point . . . . . each, $3.75
No. 4841 with **No. 3**, Mtd. John Holland Fountain Pen, fitted with 14k. No. 13 gold pen, fine, medium or stub point . . . . . each, 4.35
No. 4842 with **No. 4**, Mtd. John Holland Fountain Pen, fitted with 14k. No. 14 gold pen, fine, medium or stub point . . . . . each, 5.00



No. 4843 with **No. 52-2**, John Holland Pearl Barrel Fountain Pen, fitted with 14k. No. 12 gold pen, fine, medium or stub point..... ..each, $6.25
No. 4844 with **No. 53-2**, John Holland Pearl Barrel Fountain Pen, fitted with 14K. No. 13 gold pen, fine, medium or stub point.....each, 7.50

No. 4845 with **No. 52-24**, John Holland Silver Filigree Fountain Pen, fitted with 14k. No. 12 gold pen, fine, medium or stub point....each, $6.25
No. 4846 with **No. 54-24**, John Holland Silver Filigree Fountain Pen, fitted with 14k. No. 14 gold pen, fine, medium or stub point....each, 8.75
No. 4847, with **No. G 52-24**, J Holland Gold Filled Filigree Fountain Pen, fitted with 14k. No. 12 gold pen, fine, medium or stub point....each, 6.75
No. 4848, with **No. G 54-24**, J Holland Gold Filled Filigree Fountain Pen, fitted with 14k. No. 14 gold pen, fine, medium or stub point....each, 11.25

No. 4849 with **No. 52-24**, Silver Filigree Barrel only John Holland Fountain Pen, fitted with No. 12 fine, medium or stub pen.....each, $5.00
No. 4850 with **No. 54-24**, Silver Filigree Barrel only John Holland Fountain Pen, fitted with No. 14 fine, medium or stub pen.....each, 7.50

No. 4851

No. 4851

	Contents of John Holland 1 Doz. Assortment	
2	No. 2, J H Ft. Pens,	$ 5.00
3	No. 3, J H Ft. Pens	9.30
4	No. 4, J H Ft. Pens	11.25
2	No. 5, J H Ft. Pens	6.70
1	No. 6, J H Ft Pens	5.00
1	No. 2, Mtd J H. Ft Pens	3.75
12		$42.00

No. 4852

No. 4852

	Contents of John Holland 2 Doz. Assortment in Plate Glass Show Case	
4	No. 2, J H Ft Pens	$10.00
8	No. 3, J H Ft. Pens,	18.60
6	No. 4, J H Ft Pens,	22.50
4	No. 5, J H Ft Pens,	17.40
2	No. 6, J H. Ft. Pens,	10.00
2	No. 3, Mtd J H. Ft. Pens.	3.70
24		$87.20

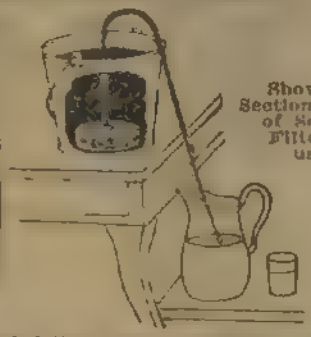
Ebony Desk Holder, Fine Rolled Plate Mounting.

No. 4853. Machine Engraved Holder with No. 3 14k. Pen..... $1.56
No. 4854. Machine Engraved Holder with No. 3 14k Pen 1.87
No. 4855. Machine Engraved Holder with No. 4 14k. Pen..... 2.35
No. 4856. Machine Engraved Holder with No. 5 14k. Pen..... 2.62
No. 4857. Machine Engraved Holder with No. 6 14k. Pen..... $3.00
No. 4858. Machine Engraved Holder with No. 7 14k. Pen 3.75
No. 4859. Machine Engraved Holder with No. 3 14k Pen. 4.49
No. 4860. Machine Engraved Holder with No. 2 14k. Pen.... ... 5.18

WATER FILTERS.

Made of Genuine White Tripoli Stone, Filtered Water Clear as Crystal. Allowed to Center and Openings refilled with Clear Water.

The Filtering Stone used in Our Seneca Filters will not allow the dirt to which extra cost from the water to escape to the spout, but holds all the impurities upon its surface, from which it can be easily removed by a simple process of scrubbing. All Parts of the Filter can be easily cleaned. Being of Stone, no Germs or Corrosive Poisons can Accumulate, as in every respect it is Absolutely Sanitary. Every Filter Furnished with 3ft. Rubber Hose, 3/8 in. Bore, fitted with 2 Glass Tubes and Rubber Connection. Each Hose furnished with Nickel Plated Steel Shut-off Clamp.



Showing Sectional Cut of Seneca Filter in use.

Nickel Plated Threaded Tube Cemented into Center at Top; ¾ in. Nickel Plated Brass Tube, 11 in. Long with Elbow Joint to project over Rim of Water Cooler.

Nos.	1B	2B
Capacity per Day, gallons	40 to 60	60 to 80
Diameter, inches	7	9
Height, inches	2	2
Weight per Dozen about, lbs.	25	36
Per Dozen	$48.00	63.00

One-sixth Dozen in a Cardboard Box; One-half Dozen in a Case.

Brass Outlet and Hose Connection Cemented into Center at Top

Nos.	11	12	13
Capacity per day, gals.	20	30	50
Size of Stone	4x3x2	5x3x2	6x4x2
Wgt. of Stone	10	15	25
Per dozen	$24.00	37.00	44.00

One-twelfth Dozen in a Cardboard Box; One Dozen in a Case.

Rubber Stopper Cemented into Center at Top, fitted with Brass Outlet Tube and Hose Connection.

Per Dozen

No. 6—SINGLE Capacity 2 Gallons per hour, 4 in. in Diameter, 6 in. High; Weight per Dozen about 25 lbs. $22.00

One-twelfth Dozen in a Cardboard Box; One-half Dozen in a Case.

FILTER TUBING.

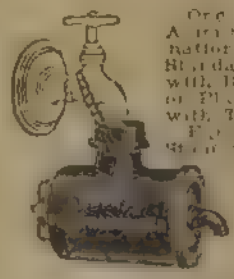
High Grade Pure Rubber Tubing Smooth Surface Red, Adapted to Nos 1B, 2B, 11, 12 and 6 Filters.

No. 1 11361—¼ in. Inside Diameter, ⅝ in. Outside Diameter ..... Per Foot, $0.12

50 Feet in a Cardboard Box; Weight per Box about 5 lbs.

PRESSURE WATER FILTERS.

ROBERTS



One Piece Malleable Iron Cylinder, Aluminum Finish, Equipped with Aerator Attachment to fit either Plain or Standard Size Threaded Faucet Furnished with Brass Chain Attachment for use of Plain Faucet. Cast Cylinder Head with Threaded Nozzle.

Equipped on Inside with a Round Tripoli Stone which is held in place by a Rubber Washer and Threaded Thumb Screw at the Center, making it Absolutely Water-tight. The Filtering Stone has a Hollow Opening drilled through the center, the water coming from the Faucet forces its way through the Stone to the center opening which leads to the Outlet Nozzle.

The Filtering Stone can be easily removed by unscrewing the Threaded Thumb Screw which will release the Cylinder; the Stone can then be drawn out with the Cylinder Head and cleaned with the Small Rubbing Stone furnished with each Filter.

No. 1G—CAPACITY 2 TO 3 GALLONS PER HOUR. Length of Cylinder 4½ in.; Diameter 3 in.; Length over all 6¼ in.; Height over all 4¼ in.; Weight each about 3¾ lbs. ..... Each, $3.80

One in a Cardboard Box

One Piece Malleable Iron Cylinder, Aluminum Finish, Equipped with Outlet Faucet Body for Filtered Water Drilled with Connection for Brass Outlet Faucet. Standard Size Threaded Faucet, and Malleable Iron Swinging Wall Bracket; Cast Iron Cylinder Head [illegible] Water [illegible] Stone Furnished with each Filter.

Equipped on Inside with Round Tripoli Stone which is held in place by Rubber Washers and Threaded Thumb Screw at the Center, making it Absolutely Water-tight. The Filtering Stone has a Hollow Opening drilled through the center, the Water coming from the Faucet forces its way through the Stone to the Center Opening which leads to the Brass Outlet Faucet at top of Filter.

The Filtering Stone can be easily removed by unscrewing the Thumb Screw which will loosen the Clamp, the Stone can then be drawn out with the Cylinder Head and cleaned with the Small Rubbing Stone furnished with each Filter.

No. 4G—CAPACITY 5 TO 15 GALLONS PER HOUR. [illegible] Length over all 4½ in. Diameter 3¾ in. Length over all 6¼ in. Height over all 4¼ in. Weight each about 3¾ lbs. $3.80

SPECIFY IF FOR PLAIN OR THREADED FAUCET

One in a Wood Box

The variation in the capacity given above on the Roberts Filter is due to the nature of the raw (or unfiltered) water [illegible] water and also the pressure from the faucet. Under ordinary conditions they will filter the maximum capacity and where the quality of the water is poor, they will filter the minimum capacity.

EXTRA STONES FOR PRESSURE WATER FILTERS.

		Each
No. 1GS	For No. 1 Filters; Wgt. each abt. ½ lb.	$0.50
No. 4GS	For No. 4 Filters; Wgt. each abt. 2 lbs.	1.30

Wrapped in Paper.

WATER FILTERS.

Body and Cover made of Heavy Stoneware Mottled Blue Color Glazed Fluted Pattern Jar. In Regular Style Filters [illegible] Filtered Water [illegible] Jar and Cover [illegible] Jar into Lower Jar and Fitted with Brass Nickel Plated Lever Faucet which is Fastened in place with Threaded Nut and Rubber Washer.

The Filtering Stone used in these Filters is of such nature that it does not allow the dirt it extracts from the water to escape to the spout, but holds all the impurities upon its surface, from which it can be easily removed by a simple process of scrubbing. All Parts of the Filter can be easily cleaned. There are no corners or crevices, hence it is absolutely sanitary in every respect.

The Filtering Stone is [illegible] Water passes through the Tripoli Stone and is delivered free from all organic matter, bacteria, etc.

Nos.	1	2	3	4
Capacity Upper Jar, quarts	6	9	12	16
Capacity Lower Jar, quarts	7	8	17	21
Filtering Capacity per Day, gallons	3 to 5	3 to 5	4 to 8	6 to 10
Diameter at Bottom, inches	8	8½	9	10
Height over all, inches	18	21	22	25
Weight each, lbs.	25	35	45	65
Each	$3.60	4.00	4.80	5.90

One in a Crate

MILK KETTLES.

Seamed and Soldered; IC TIN, PLAIN; Riveted Tin Ears; 10 Guage Steel Wire Bail; Rimmed Tin Cover; Flat Soldered Tin Handle.

Nos.	1	2	4
Capacity, quarts	1	2	4
Size, inches	6¼x4x3	7¾x5x3½	9x6½x3¾
Wgt. dozen about, lbs	6	9	12
Per dozen	$2.00	3.00	5.10

Nos.	6	8	10
Capacity, quarts	6	8	10
Size, inches	10¼x7¼x4¼	13x7½x3¾	13x8½x4¼
Wgt. per dozen, lbs	16	18	23
Per dozen	$6.30	8.50	12.50

BAILED.

IX Tin Seamed and Soldered; Rimmed Tin Cover with Soldered Tin Handle; Riveted Ears; 10-Gauge Steel Wire Bail.

Nos.	11	12	13
Capacity, quarts	2	3	5
Diameter, in.	4¼	5	6
Height to Top of Can, in.	6¼	7¾	8¾
Weight dozen about, lbs.	6	8	12
Per dozen	$2.80	3.90	5.10

Nos.	14	16	18	110	112
Capacity, quarts	4	6	8	10	12
Diameter, inches	6¾	7	7¾	8¾	9¼
Height to Top of Can, in.	8¾	10¾	12½	13¾	13½
Weight dozen about, lbs.	14½	16	20	24	29
Per dozen	$6.40	8.70	9.50	12.00	15.00

Packed Loose.

MILK CANS.

CITY DELIVERY.

Seamed and Soldered, Reinforced Soldered Tin Handle, Deep Rimmed Tin Cover, with Soldered Flat Tin Handle Chained to Handle of Can.

Nos.	4 C	8 C	12 C
Capacity, quarts	4	8	12
Quality of Tin	XXX	XXXX	XXXX
Size, inches	6¼x10½	8x13¾	8¾x15¾
Wgt. per dozen about, lbs.	24	30	48
Per dozen	$18.50	25.50	31.50

Seamed and Soldered, With Soldered Tin Handles. Deep Rimmed Tin Cover with Soldered Flat Tin Handle.

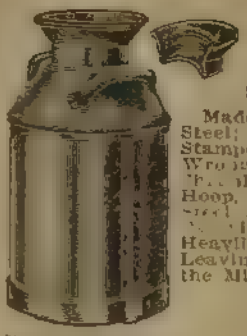
PLAIN IC TIN.

Nos.	01	02	04	06
Capacity, quarts	1	2	4	6
Size, inches	4¾x6½	5x8	6½x9¾	7x11½
Weight dozen about, lbs.	6	9	12	18
Per dozen	$2.40	3.00	4.80	6.40

PLAIN IX TIN.

Nos.	08	010	012
Capacity, quarts	8	10	12
Size, inches	7¾x12½	8¾x13¾	9¾x14½
Weight per dozen about lbs.	22	26	30
Per dozen	$9.50	12.50	14.50

Packed Loose



MILK CANS.

BUHL'S OHIO PATTERN.

Especially Adapted for Railroad Shipping.

Made of Heavy Cold Rolled Tempered Steel; Riveted Body; Fitted with Buhl's Stamped Breast and Neck; Heavy Wrought Iron Breast Hoop, Welded and Shrunk on, 2½ in. Heavy Steel Bottom Hoop, Riveted on, Buhl's Victor Seamless Steel Sunk Cover; Round Hollow Steel Carrying Handles Riveted on; All Parts Heavily Tinned after being Riveted, Leaving No Crevices or Joints in which the Milk can Sour

Nos.	320	332	340
Capacity, quarts	20	32	40
Diameter, inches	11	13¼	13¾
Height, inches	18¾	20½	24
Weight each about, lbs	10	14½	16
Each	$4.20	4.60	4.80

STANDARD IOWA PATTERN.

Made of Extra Heavy Can Stock; Double Seamed, Double Tinned throughout. Extra Heavy Half Round Wrought Iron Breast Hoop, Shrunk on and Riveted; Seamless Stamped Breast and Neck; 2¾ in. Heavy Wrought Iron Bottom Hoop, Securely Riveted; Round Stamped Steel Carrying Handles; Seamless Stamped Steel Sunk Covers, with Riveted Steel Handles; all Parts Double Tinned after being Riveted, making a Perfect Smooth Surface, Leaving no Crevices or Open Joints in which the Milk can Sour

Nos.	1105	1108	1110
Capacity, quarts	20	32	40
Diameter, inches	10½	12⅝	13
Height, inches	20	24	24
Weight each about, lbs	12	14	14
Each	$2.90	3.30	3.50

‡ BUHL'S

Especially Adapted for Railroad Shipping.

Made of Heavy Cold Rolled Tempered Steel; Riveted Body; Fitted with Buhl's Stamped Breast and Neck; Heavy Wrought Iron Breast Hoop, Welded and Shrunk on; Buhl's Victor Seamless Steel Sunk Cover. Riveted Sheet Steel Carrying Handles.

All Parts Heavily Tinned after being Riveted, leaving No Crevices or Joints in which the Milk Can Sour.

WESTERN OR CHICAGO PATTERN

Nos.	‡320	‡332	‡340
Capacity, quarts	20	32	40
Diameter, inches	10½	13¼	13¾
Height, inches	20	24½	24½
Weight each about, lbs	13	18	22
Each	$5.30	5.70	6.10

CLEVELAND PATTERN.

Nos.	‡710	‡730	‡740
Capacity, quarts	20	32	40
Diameter, inches	10½	13	13
Height, inches	20	24½	24½
Weight each about, lbs.	14	20	24½
Each	$5.60	6.90	7.50

Packed Loose.

‡ Goods marked thus (‡) are not carried in stock and can only be furnished by shipment direct from factory

FAN MOTORS.

DRAWN STEEL FRAME.

The New Steel-clad Type of Westinghouse 12 and 16 in. Fans.

The Mechanical Points of Superiority Are: A Saving in Weight of 30%, Increase in Strength, Ability to Adjust Fan to almost every conceivable Vertical and Horizontal Position by means of one Single Thumb Screw, Increase in Volume of Air moved, Greater Symmetry in Design than ever an Electric Fan had before, Dead Black [illegible]

12 [illegible]

Felt Base on all Fans. Pressed Steel Guard Supports. Self-lubricating Bearings; Brass Blades Highly Polished [illegible] Speed controlled by Lever [illegible]

[illegible] TYPE [illegible] Six Blades [illegible] in 12 [illegible] Fans are [illegible] Fans are [illegible] Locations, Perfect [illegible] Noiseless, and will [illegible] assembled

[illegible] Will Fit [illegible] Every Application [illegible]

[illegible] for [illegible]

OSCILLATING FANS HAVE DRAWN STEEL FRAMES [illegible] They possess the same Advantages of Minimum Weight, High Efficiency and QUIET OPERATION.

The Mechanism is packed in Vaseline, which requires renewal only once in a season.

The Oscillating Movement can be Stopped Instantly by raising the Knurled Head on Top of the Mechanism and it can be started by simply pushing this head down. This combination affords both a Stationary and Oscillating Type of Fan.

[illegible] course of revolution, the Fan [illegible] without interfering with the operation of the Motor. This prevents burning out the Motor, or the overturning of the Fan.

FAN MOTORS.

WESTINGHOUSE.

ORDER BY STYLE NUMBER

56 IN CEILING AND COLUMN FAN

CEILING AND COLUMN FANS [illegible] shafts and [illegible] of copper with [illegible] lubricating device. Ball Bearings [illegible] the revolving [illegible] for [illegible] and to [illegible] of the [illegible] Bevel [illegible] with [illegible]

EXTRA FREE ATTACHMENTS [illegible] Fan [illegible] Two [illegible] Blades and [illegible] Blades [illegible] shadows

FINISH—Either a mottled copper or a black japan finish is furnished on all 56 in. Motors. Hanger stems for Mottled copper motors are furnished to match. No hanger stems are furnished with black Japan motors, as plain conduit is used with these. All blades are stained mahogany color on standard finish motors.

COLUMN AND FLOOR FANS are similar to Ceiling Fans in motor body finish. Prices forwarded on request.

In ordering, specify voltage and frequency of current.

ORDER BY STYLE NUMBER.

With mottled copper Ceiling Fans is furnished a 3 ft. stem of iron conduit also 3 ft. length of rope design brass stem casing, finished in mottled copper, together with an insulating hanger, ceiling hook and canopy. The [illegible] for 12 ft. [illegible] For greater length [illegible] per foot or fraction thereof.

[illegible] stems are [illegible] with Hook to [illegible] Insulator, [illegible]

Plain [illegible] Conduit, Brass or Steel and, will be furnished [illegible] per ft. [illegible]

	Each
No. 18 connecting Cord [illegible] With [illegible]	$1.20

Packed Loose; Weight Each about 1 lb.

60 CYCLE ALTERNATING CURRENT

Style	Volts	Style	Amps	Watts	Size
[illegible]	[illegible]	Desk and Bracket	[illegible]	1300-1450-1600	$27.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27.00
[illegible]	0 to 1	Desk and Bracket	[illegible]	[illegible]	32.50
[illegible]	1 to [illegible]	[illegible]	[illegible]	[illegible]	27.00
[illegible]	[illegible]	Desk and Bracket	[illegible]	[illegible]	27.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	32.50
[illegible]	[illegible]	Desk and Bracket	[illegible]	1300-1450-1600	34.50
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.50
[illegible]	[illegible]	Desk and Bracket	[illegible]	[illegible]	40.50
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.50
[illegible]	[illegible]	Desk and Bracket	[illegible]	[illegible]	34.50
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	41.00
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	58.00
115697B	0 to 115	Old Copper Finish, 4-Blade Ceiling	90	150-225	52.50
115735B	100 to 115	Black Japanned			

One Fan Complete in a Case.

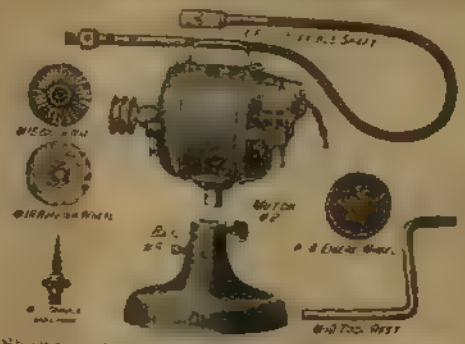
Prices furnished upon application for 220 Volt Alternating Current and 25 30 40 Cycle Fans.

We are Prepared to Furnish Electric Fans in any Quantity. Write us for Quantity Price.

ELECTRIC MOTORS.

WESTINGHOUSE

For Homes, Hotels, Restaurants, Jewelers, Opticians, Garages, Machine Shops, Etc.
ALL FOR ALTERNATING CURRENT SINGLE PHASE LIGHTING CIRCUIT 60 CYCLES, 110 VOLTS



Showing Universal Motor and Extra Parts Included in Outfits Nos. [illegible]

No. 1 No. 2

GENERAL UTILITY MOTOR.

The Various Sizes of this Motor are Designed to Operate Buffing, Polishing and Grinding Wheels, Drilling Machines, Lathes, Light Machinery, Sign Flashers, Moving Window Displays, Mechanical Toys, Etc.

By using Flexible Shaft No. 2 any part of an Automobile can be reached.

Motor is Fitted with a Detachable Pedestal Base, Carrying Handle, Snap Switch, Reversing Plug Switch, One Speed Only, a Two-step Pulley for Round Belt, Attachment Plug for the Ordinary Lighting Socket and 6 ft. of Extra Heavy Cord. Approximate Cost per Hour to Operate ¾ to 1½ cents.

No. 1—Comprising Motor No. 2 and Detachable Base No. 9 Only; Weight complete about 30 lbs. ..... Each $29.50

No. 2—Comprising Motor No. 2, Detachable Base No. [illegible] and One Blower No. 18. Weight complete about [illegible] lbs. 40.50

No. 3—Comprising Motor No. 2, Detachable Base No. [illegible], Tool Rest No. 10, Spindle and Chuck No. 11, Emery Wheel No. 14, Buffing Wheel No. 15 and Brush Wheel No. 16; Weight complete about 32 lbs. .. 34.80

FLEXIBLE SHAFT

No. 4—[illegible] Flexible Shaft for Attaching to Motor No. [illegible] Is Used for Operating Buffing Wheels, Grinding Wheels, Etc. Weight about 3 lbs. ..... Each $14.00

One Complete Set in a Wood Box

SINGLE PHASE ALTERNATING CURRENT MOTORS

Are Suitable in Homes of Moderate Size, Garages, Small Machine Shops, Laundries, Washing Machines, Ice Cream Freezers, Operate Small Pumps, Small Tools, Drills, Lathes, etc.; These Motors driving a Blower will Ventilate the Kitchen or assist in Circulating Air from the Furnace or Radiator. No Starting Device other than a Line Switch is required; Starts Automatically; Feet are Slotted for Belt Adjustment. Pulley Face Grooved for Round Belt. BELT NOT INCLUDED.

ONE SPEED ONLY

No. 156773—[illegible] H. P. 1725 Revolutions per Minute; 2 in. Pulley. Weight each about 26 lbs. ..... Each $35.00

No. 156778—[illegible] H. P.; 1725 Revolutions per Minute; 2 in. Pulley. Weight each about 30 lbs. 40.80

No. 156785—[illegible] H. P. 1725 Revolutions per Minute; 2½ in. Pulley. Weight each about 35 lbs. 47.20

No. 156787—¼ H. P. 1140 Revolutions per Minute; 3½ in. Pulley. Weight each about 40 lbs. 52.00

One in a Wood Box

SEWING MACHINE MOTOR.

Showing Sewing Machine Motor Position

Fits any ordinary make of Sewing Machine. The Operator merely guides the material and watches the stitches, has complete control over the Machine and can Stop, Start and Change its Speed from one Stitch to a Thousand Stitches a Minute, by Foot Pressure on Treadle.

To Close Drop Head Machine or to put Cover over Stationary Head Machine, simply turn Motor on Swinging Base, leaving Motor outside.

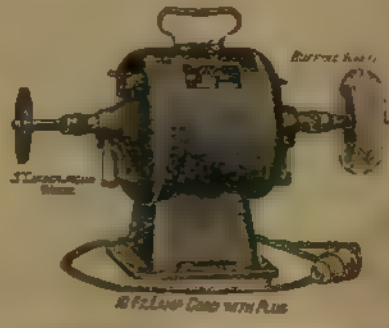
Furnished Complete with Flat Base for Attaching to Table Top, Flat Grooved Pulley, Round Leather Belt, Set of Attachments consisting of Brake, Idler Pulley and Operating Lever; Also a Connecting Cord 10 ft. Long.

Assembled Complete Ready for Connection with Lateral Switch and Plug for Connection with Lighting Fixture. Approximate Cost for Running 1½ cents per Hour.

No. 165128/C—For 110 Volts; 60 Cycles, Alternating Current; ¼ Horse Power Capacity, Weight about 30 lbs. ..... Each $20.10

One Complete in a Wooden Box

BUFFING, POLISHING AND GRINDING MOTORS



Showing Motor and Attachments Comprising Nos. 121564 and 121566.

Dentists, Opticians and Jewelers find this Motor a great time saver. Simple and Practical, is recognized by all users of Power Driven Tools as the Standard Motor for Driving Silverware, Optical Tools, etc. The addition of Flexible Shaft No. 2 which is furnished in connection, Adds Light Power to Operate Shining, Grinding, Polishing, Buffing and Metal Turning. Also used for Signs on Buildings, Hand Railings, Stationary Metal Pipes and will fit in any part of an Automobile.

One of the Features is a Little Lever for Starting, Stopping and Changing the Speed.

Oil every Two or Three Months.

Buffing, Polishing and Grinding Motors Include Carborundum Wheel, 6 in. Diameter, 30 to Buffing Wheel, 3 in. Diameter, Left Hand Chuck for Emery Wheel and Right Hand Tapered Chuck for Buffer Stock of Rouge and Part of Lamp Cord Connected to Plug.

COMPLETE WITH ATTACHMENTS AS ABOVE

No. 121564—¼ HORSE POWER, Two Speeds, 1600 and 3400 Revolutions per Minute; Weight each complete about 25 lbs. ..... Each Complete $45.30

No. 121566—½ HORSE POWER, Two Speeds, 1750 and 3400 Revolutions per Minute; Weight each complete about 45 lbs. 52.50

One Complete Set in a Wood Box

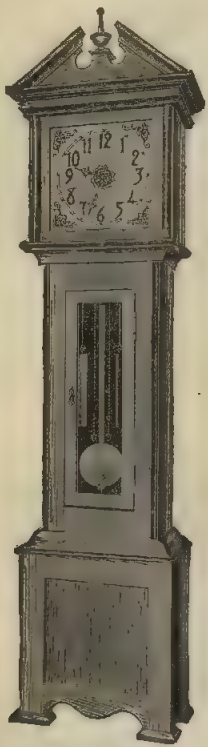
HALL CLOCKS

PRICES EACH

WESTMINSTER HALL CLOCK $283.35

No. 2582 Chicago

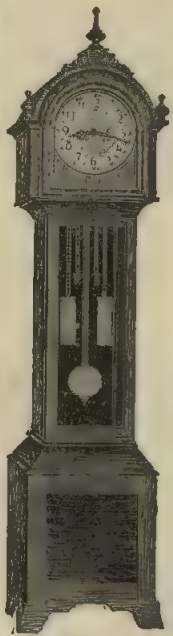
Mahogany case, highly polished Inlaid with Marqueterie Height 7 feet 1 inch, width 18½ inches Westminster Chime movement striking full Westminster Chime at the quarter-hour and hour on five tube staffs Moving moon dial and calendar. Eight-day spring movement.



No. 74 HALL CLOCK $113.35

Oak or mahogany finish 8-day, chain weight, half-hour strike gong; beats seconds 12-inch gilt and silver dial, height 85 inches, width 22½ inches.

Waterbury



SHEFFIELD $123.85

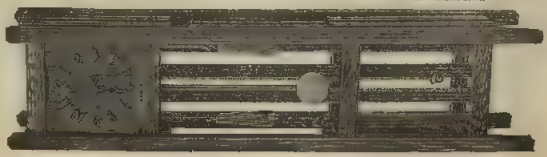
Solid mahogany 8-day, weight, half-hour strike, cathedral gong, 12-inch etched metal dial, height 90¾ inches, width 21¾ inches.

New Haven

WESTMINSTER HALL CLOCK $368.60

No. 2586 New York)

Mahogany case, highly polished. Inlaid with rich Marqueterie Height 6 feet 5 inches, width 18½ inches. Westminster Chime movement, striking full Westminster Chime at the quarter-hour and hour on five tube staffs Moving moon dial and calendar, same as shown on illustration



No. 20 DUTCH $72.50

Solid oak. Flemish finish, 8-day weight, half-hour strike, cathedral gong. 12-inch wood dial, cast hands and numerals, height 78 inches width 19¼ inches.

New Haven

All Prices on This Page are Manufacturer's Lists Prices Quoted upon Request

✠FANCY WINCHESTER RIFLES.

The Ornamenting of Winchester Rifles Affords Excellent Opportunities for Displaying Both Fine Engraving and Artistic Carving. Some Specimen Work Shown Below was Done at the Armory of the Winchester Repeating Arms Co. by Their Own Employees During Their Leisure Hours.

The Prices Named Cover Only the Engraving and Metal Parts. The Guns are Furnished Complete in Every Detail, Ready to be Loaded for Proving, Prior to Which the Price of the Company's Guarantee Must be Added. For Prices of Models 1866, Octag. Barrel Rifle and Pistol, see Page 2566. Extra for 32 or 38 W. C. F. Rim Fire Cartridges, Not Adapted to Use in Models 1873, 1876 or 1886, Except Model 1886 Extra Light Weight, Page 2566. Extra for Set Triggers, Page 2566. Extra for Engraving Name, Page 2566. Extra for Hand Carving Stock and Fore-arm, Page 2566. For Engraving and Inlaying Gold Initials or Monogram, See Page 2566. For Checkering Stock and Fore-arm, See Page 2566. For Pistol Grips, Page 2566. Prices Subject to the Same Trade Discounts as the Guns it is Put Upon.

NOTE. For Further Description of Fancy Finished Winchester Rifles, Write for Special 28 Page Illustrated Catalogue, Showing Many Different Styles of Engraving, Carving, Etc.

AN ELABORATELY ORNAMENTED MODEL 1886 W. WINCHESTER RIFLE
Any Caliber

	Each
Style of Engraving, No. 1	$240 00
Style of Carving, A	60 00

EXTRAS
Subject to Same Discount as Guns on which they are put.

✠EXTRAS ON WINCHESTER RIFLES

All Deviations from Standard Styles and Sizes Involve a Large Proportional Outlay for Hand Labor and When Ordered, will be Subject to the Following Charges.

For Additional Length of Barrel and Magazine on Repeating Rifles Except Model 1895 add to Price $1 00 per inch Over the Regular Lengths, as Quoted in Preceding Pages.

For Additional Length of Barrel on Model 1895 add to Price 50 cts. per inch Over the Standard.

Barrels Larger or Heavier or Longer than Standard, Special.

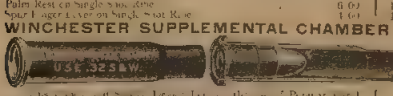
Extra Heavy Barrels for Repeating Rifles Models 1873 and 1886, Round or Octagon, Increasing the Weight of the Gun from One to Two Pounds, and the Extra Weight of the Gun Costs $5 00.

Half Stock or Special Shape Stocks, Shortening Either Length or Drop from Standard, $10 00.

Engraving and Scroll or $25 and $50 All Over, According to Style and Quality.

Fig. Stocks, Pistols	$4 00
Nickel Plating Trimmings	2 50
Silver Plating Trimmings	4 00
Gold Plating Trimmings	10 00
Set Triggers on Repeating Rifles, Model 1873	3 00
Do. Do. Trombone Model 1892 and 1894	3 00
Rocky Set Triggers on Single Shot Rifles	2 00
Set Triggers on Single Shot Rifles	6 00
Extra Walnut Stock and Fore-arm, except on Models 1905 and 1907 Rifles	1 00
Fancy Walnut Stock and Fore-arm on Model 1895 and 1907 Rifles	13 00
Checking Each Walnut Stock and Fore-arm	3 00
Fancy Walnut Stock and Fore-arm Checked, except on Models 1905 and 1907 Rifles	18 00
Pistol Grip Stock and Fore-arm Extra Walnut Checked	18 00
Pistol Grip Stock of Extra Walnut, not Checked	3 00
Checking Pistol Grip Walnut Stock and Fore-arm, except Models 1905 and 1907	2 00
Checking Extra Walnut Stock and Fore-arm on Models 1905 and 1907	5 00
Palm Rest on Single Shot Stock	6 00
Spur Finger Lever on Single Shot Rifle	1 00
Schuetzen Butt Plate on Single Shot Rifle	$4 00
Swiss Butt Plates	2 00
Cheek Piece for Stock	4 00
Leaf Sight Rear Sight, or Changing Position of Rear Sight	50
Extra Choice to Full Rear Sight Slot	25
30 Octagon Barrels Fitted to Krag Jorgensen Military Rifle	25 00
Sling Strap	50
Screw Eyes, Swivels, Sling Plates and Strap	1 50
Special Full Length Rifle with Shotgun Butt Stocks	7 00
Matted Barrels	5 00
Interchangeable Barrels, Complete with Magazine, Forearm, etc., Models 1886 (all Calibers Except 33 W. C. F. and 38 and 44 Calibers) and 1894 (32-40 and 38-55 Calibers), for Take Down Rifles	
Round Barrel	12 00
Octagon Barrel	13 00
Half Octagon Barrel	14 00
Interchangeable Barrels, Complete with Magazine, Forearm, etc., Model 1894 (38-55, 30 W. C. F. and 32 Winchester Special Calibers) for Take Down Rifles	
Round Barrel	14 00
Octagon Barrel	16 50
Half Octagon Barrel	17 00
Rifle Butt Stocks Equipped with Jointer Rod on Models 1886, 1892, 1894, 1895, and on Single Shot Rifles of 25 Calibers or Larger	90

WINCHESTER SUPPLEMENTAL CHAMBER



This Chamber will Secure Perfect Results in the Use of Popular Pistol Cartridges in Rifles. Over Half of the Winchester Rifles Sold to the U. S. Army, All Sold to the British, 32-20, 38-40, 44 Winchester Specials, 38 and 45 Winchester Centre Fire, will not Change or Readjust any of the Rifle Except to Insert the Chamber. The Winchester Supplemental Chamber is Inserted in the Rifle, the Same as a Cartridge, and Can be Extracted from the Gun in the Same Manner as an Empty Shell. It Does not Interfere with the Ordinary Use of Regular Ammunition. For Short Range Shooting or Indoor Target Practice it Gives Perfect Results with Makes of Ammunition Available. Addition to Every Sportsman's Equipment. For Outdoor and Target Practice it Gives the Greatest Accuracy at a Minimum Expenditure for Ammunition.

The Winchester Supplemental Chamber is Made in the Following Sizes.

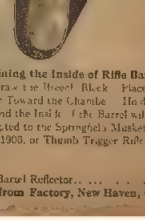
Caliber	Cartridges
30 Winchester	For use with 32 Smith & Wesson
30 Army	For use with 32 Smith & Wesson
303 Savage	For use with 32 Smith & Wesson
303 British	For use with 32 Smith & Wesson
32 Winchester Special	For use with 32 Short Colt
32-40	For use with 32 Short Colt
38 Winchester	For use with 38 Smith & Wesson
405 Winchester	For use with 41 Short Colt Double Action

We Recommend the use of Smokeless Powder Cartridges with the Winchester Supplemental Chamber as the Black Powder Cartridges Soon Foul Barrels. Having such Quick Twists as the Above.

	Each
✠ No. WSC	Winchester Supplemental Chamber..... $0 60

Items Marked ✠ Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Haven, Conn.

THE WINCHESTER BARREL REFLECTOR



For Examining the Inside of Rifle Barrels

Directions. Without the Bolt. Block Place the Glass on Top of the Carrier, the Mirror Toward the Chamber. Hold the Muzzle of the Gun Toward the Light, and the Inside of the Barrel will be Seen Reflected in the Mirror. Also Adapted to the Springfield Musket. Not Adapted to Models 1890, 1892, 1894, 1895, or Thumb Trigger Rifles. When Ordering Specify Model of Rifle

	Each
✠ No. 100	Winchester Barrel Reflector..... $0 50

Prices on Winchester Goods Shown on This Page are Manufacturers' Lists Prices Quoted upon Request

PEARL REVOLVER HANDLES

NOTE—These Handles are Extra Selected, and add Greatly to the appearance of any Revolver. They are Filed and Fitted to Interchange with the Regulation Rubber Stocks which are Supplied on Revolvers of Standard Manufacture. They are Equipped with Assembling Screw, Threaded and can Usually be adjusted Without any Filing.

FOR BABY HAMMERLESS REVOLVERS 22 CALIBER

Per Pair

No. 0—Weight per Pair 1 oz $1 00

FOR BABY HAMMERLESS REVOLVERS 32 CALIBER

Per Pair

No. 00—Weight per Pair 1½ oz $1 00

FOR SMITH & WESSON 22 PERFECTED HAND EJECTOR REVOLVERS

Per Pair

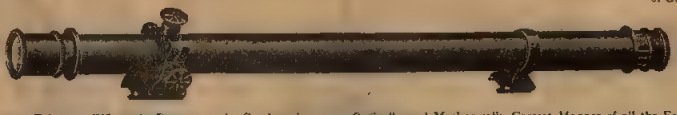
No. 20—Weight per Pair 1 oz. $3 85

No. 2 Rear Mount

†WINCHESTER TELESCOPE RIFLE SIGHTS

Adapted to all Makes of Repeating and Single Shot Rifles

Micrometer Adjustment of Objective Lens.



The Winchester Telescope Rifle Sight Represents the Combination in an Optically and Mechanically Correct Manner of all the Features Essential in a Practical and Satisfactory Instrument of Precision. It also Embodies in its Design Several Valuable Improvements which Correct Faults Common to Other Telescope Sights. Notable among these New Features are the Micrometer Adjustment of the Objective Lens which makes it Simple and Easy to take Advantage of the Possibilities of this Type of Sight to the Fullest Degree, and an Aperture Reticule, Furnishing the Smallest Aperture with the Least Obstruction of the Field of any ever Offered. The Winchester Telescope Sight is Made in Two Styles—A and B—and in Three Different Powers. The Style A is made in 5 Power, and the Style B in 5, 4 and 3 Power. The Style A 5 Power Glass has a Larger Field and More Brilliant Illumination than the Style B Glass of the Same Power. Either Style can be Used on any Repeating or Single Shot Rifle. This Sight is Light and Compact, the Length of the Style A 5 Power being 15⅞ inches, Style B 5 Power 15 7-16 inches, Style 4 Power 14 15-16 inches, and Style B 3 Power 14⅛ inches.

	Power	Field at 100 Feet	Relief	Length	Weight	Each
Style A, with No. 1 Mounts	5	5 feet 8 inches	2 inches	15⅞ inches	10 ounces	$27.00
Style B, with No. 1 Mounts	5	2 feet 9 inches	3½ inches	15 7-16 inches	9¼ ounces	18.00
Style B, with No. 1 Mounts	4	3 feet 8 inches	3⅝ inches	14 15-16 inches	9 ounces	18.00
Style B, with No. 1 Mounts	3	4 feet 10 inches	3¼ inches	14⅛ inches	8¾ ounces	18.00

No. 2 Rear Mount can be used with Either Style A or Style B Telescope, and will be Furnished, when so Ordered, Instead of No. 1, for $2.00 Extra. No. 1 Rear Mount is Standard for both Style A and Style B Telescopes, and will be Sent on all Orders Unless Otherwise Specified.

	Each
No. 1 Rear Mount and Base Complete	$2.25
No. 2 Rear Mount and Base Complete	4.25
Front Mount and Base Complete	1.50
Sight Mount Bases	.35
Reticules	1.50

When Apertures, Double Cross Hairs or Triangles are Ordered Separately, the Style and Power of the Telescope in which it is Intended to use Them should be Given.

NOTE.—When Ordering Always Give the Make, Model and Caliber of Rifle to which the Telescope is to be Attached, in Order that the Proper Front Mount Base may be Furnished.

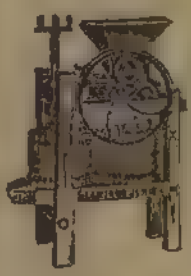
Items Marked † Not Carried in Stock; Can Only be Furnished by Shipping Direct from Factory, New Haven, Conn.

WINE AND CIDER MILLS.

STANDARD.

Senior

Medium



Junior.

Varnished Hardwood Securely Bolted Frame, Bottom Trough, Removable Hopper and Lever, Black and Red Striped; Cast Iron Yoke, Balance Wheel and Journals; Steel Press Screw, with Cast Socket and Top Wheel Japanned, with Hand Grips; Steel Shafts; Cast Iron Roll Casing, Painted Red, with One Plain and Two Corrugated Adjustable Rolls, Triple Geared, Cast Iron, Japanned, Cranks with Wood Handles, Two Plain Hardwood Removable Tubs with Heavy Staves, Riveted to ⅜ in. Thick Japanned Wrought Iron Bands; Two Octagon Sliding Hardwood Bushboards and Hardwood Heavy Plunger Boards, Plain Finish; Complete with Malleable Wrench

Nos.	WMS Senior	WMM Medium	WMJ Junior
Height over all, in.	48	40	43
Inside Dimen. of Trough, in.	18½x40¾	14½x29½	12[illegible]
Inside Dimen of Tubs, in.	15½	12	[illegible]
Dimen. of Press Screw, in.	[illegible]	20½x[illegible]	[illegible]
Length of Lever, in.	[illegible]	20	29
Dimensions of Hopper, in.	13x15	11x14	13[illegible]
Floor Space Required, in.	29x45	22x37	29x3[illegible]
Weight each about, lbs.	420	[illegible]	[illegible]
Each	$35.00	27.00	21.00

Family

Varnished Hardwood Braced and Bolted Uprights, Double Braced Bottom Board 16x20 in., and Lever 22¼ in. Long; Cast Iron Hopper [illegible] in., Studded Revolving Roller [illegible] in. in Diameter and Roll Casing Painted Red; Cast Iron Balance Wheel Japanned [illegible] in. in Diameter, with [illegible] Hardwood Rim, [illegible] in. Steel Shaft; Steel Press Screw [illegible] in. with Cast Iron Socket and Lever Socket Hardwood Plunger Board, working in Plain Hardwood Removable Tub 12¼ in. Inside Diameter, with Heavy Staves, Riveted to ⅜ in. Thick Japanned Wrought Iron Bands.

No. WMF—Height over all 42 in.; Uprights 28 in. Long; [illegible] in. at Bottom, 4¾x[illegible] in. at Top; Floor Standards 2¾x[illegible]x20½ in.; Spread 18 in.; Weight each about 110 lbs. ... Each, $12.50

PANT CLOG

Varnished [illegible] Braced and Bolted Uprights, [illegible] Bottom Board 1¾x16x2[illegible] in., Wood Lever [illegible] Long; Plain Hardwood Tub 12 in. High, 12 in. Outside Diameter, made of Heavy Staves Riveted to Japanned Wrought Iron Bands; Heavy Cast Iron Japanned Yoke or Cross Head through which the Crank Shaft extends; Cast Iron Hopper 6x19 in.; Studded Rollers 5 in. Diameter, Painted Brown; Cast Iron Black Japanned Pinion Wheel 12 in. Diameter; Balance Wheel 16 in. Diameter; Steel Press Screw 1¼ in. Diameter 24 in. Long, extends through the Yoke; Hardwood Press Board 12 in. Diameter; Length of Crank 12 in.

Each

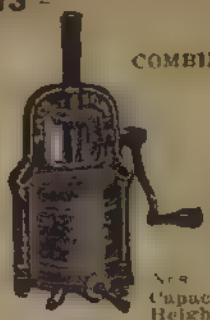
No. WMC—Height over all 40 in.; Uprights 36 in. Long; [illegible] in. at Bottom, 1¾x3½ in. at Top; Floor Standards 2x2¼x20 in.; Spread 22 in.; Weight each about [illegible]

Packed Loose

PRESSES.

COMBINED FRUIT OR LARD PRESS AND SAUSAGE STUFFER

SIMMONS WONDER.

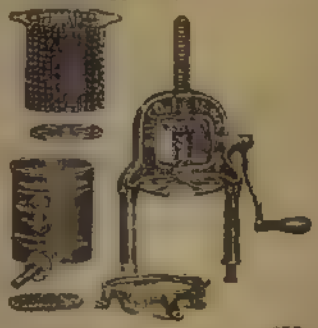


Cast Iron, Brown Japanned, With Beveled Gear and Screw Movement, Patent Swinging Frame; Removable Cylinder, Complete with Perforated Lipped Tin Strainer or Cylinder, Perforated Strainer Plate and One Each Large and Small Cast Ribbed Plunger Plate.

Nos	052	052½	053
Capacity, quarts	4	6	8
Height to Top of Arch, in.	14	15	19½
Outside Diameter of Cylinder, inches.	7	8	8½
Length of Crank, in.	8½	9	9
Weight each about, lbs.	42	50	66
Each	$8.00	9.00	10.00

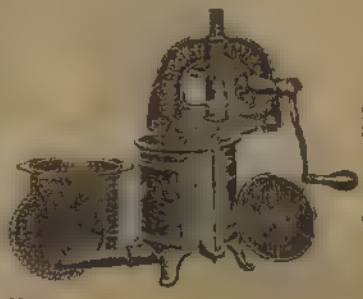
Packed Loose

EXTRA PARTS FOR SIMMONS' WONDER PRESSES.



For Nos.	052	052½	053
Arch of Frame, each	$1.70	$1.75	$2.00
	2.40	2.50	2.80
Spout Holder, each	15	15	15
	20	.20	.20
Spouts, each	30	30	30
	42	.42	.42
Strainer Plate (New Style) to Fit on Inside of Lipped Tin Cylinder, each	30	40	60
	42	60	.80
Small Plunger Plate, each	50	.75	.98
	5	65	70
Large Plunger Plate, each	.50	75	.98
	.50	75	.98
Lipped Tin Cylinder or Strainer (New Style), each	90	90	1.00
	1.10	1.40	1.40

Packed Loose



ENTERPRISE CAST IRON.

Japanned With Beveled Gear and Screw Movement, [illegible] Top, [illegible] Steel Press Bolts, [illegible] Removable Cylinder, [illegible] plate with Perforated Lipped Tin Strainer or Cylinder; Perforated Strainer Plate and One Each Large and Small Cast Ribbed Plunger Plate

Nos	25	35
Capacity, quarts	4	8
Height to Top of Arch, inches.	15	20
Diameter of Cylinder, inches	7½	9
Length of Crank, inches.	8	9
Weight each about, lbs.	45	64
[illegible]	$6.50	7.00
	7.70	8.70

One in a Case.

EXTRA PARTS FOR ENTERPRISE PRESSES.

For Nos.	25		35	
Spout Holder, each	$0.20	$0.28	$0.20	$0.28
Spouts, each	.40	.56	.40	.56
Strainer Plate, each	.30	.42	.60	.84
Small Plunger Plate, each	.35	.50	.70	.98
Large Plunger Plate, each	.35	.50	.70	.98
Tin Cylinders or Strainers each,	.75	1.00	1.00	1.40

Packed Loose.

Additional Parts for SIMMONS WONDER and Enterprise Presses not listed above can only be furnished by being sent direct from the factory.

When ordering Parts state Number of Machine same are wanted for. Do not return broken parts to be duplicated but Order by Numbers and Descriptions

PRESSES.

FRUIT OR WINE.
BRIGHTON PATTERN.

Cast Iron Flanged Base, with Spout, and Three Legs to screw to Table; Steel Upright Bolts, with Removable Cast Iron Cross Piece Fastened on by Thumb Screws, Removable Heavy Tin Main Cylinder and Perforated Inside Tin Strainer Cylinder, with Turned Wired Edges, Braced Cast Iron Perforated Lower Strainer Plate, and Plunger Plate, Swiveled to Deep Threaded Steel Screw Rod with T-Handle at Top; Full Tinned Finish.

No. 2—CAPACITY 2 QUARTS; Height to Top of Cross Piece 6⅛ in.; Diameter of Cylinder 5¾ in.; Weight each about 8 lbs. .....Each $3.00

Six in a Case.

No. 4—CAPACITY 4 QUARTS; Height to Top of Cross Piece 12⅛ in.; Diameter of Cylinder 7¾ in.; Weight each about 20 lbs. .....Each 5.00

No. 10—CAPACITY 10 QUARTS; Height to Top of Cross Piece 14⅞ in.; Diameter of Cylinder 9¼ in.; Weight each about 40 lbs. .....Each 8.00

Two in a Crate.

MEAT JUICE.
OSBORNE PATTERN.

Cast Iron Japanned Base and Arch in One Piece, with Japanned T-Handled Deep Threaded Screw Rod; Removable Cast Iron Tinned Cup, with Lip and Convex Ribbed Bottom; Removable Cast Iron Tinned Pressing Plate, with Handle and Concave Ribbed Lower Surface to match Bottom of Cup. Each

No. 01—INDIVIDUAL SIZE; Capacity of Cup about 2½ [illegible] Height to Top of Arch 7½ in.; Diameter of Base 3¾ in. Weight about 3 lbs. $1.60

No. 02—FAMILY SIZE; Capacity of Cup about 4 ounces Height to Top of Arch [illegible] Diameter of Base 4⅝ in.; Weight each about 5 lbs. 2.50

One in a Cardboard Box; One-half Dozen in a Case.

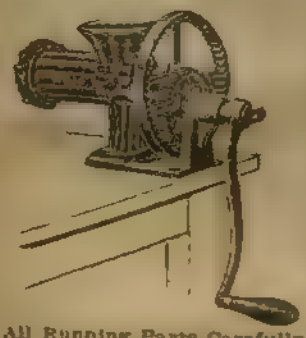
LARD.

Cast Iron Base, Natural Finish, with Open Spout; Fitted with Three Hardwood Legs; 22 Gauge Galvanized Sheet Steel Cylinders; Solid Cast Iron Plunger Plate; Hardened Steel Worm 1 in. in Diameter; 18 in. Wrought Iron Handle. Size of Outside Cylinder 8x12 in.; Size of Inside Cylinder 8x10 in.; Height over all 35½ in.

No. 1—Capacity 3¾ Gallons, Weight each about 40 lbs. $3.50

Packed Loose.

MEAT CUTTERS.



KEEN KUTTER*

Highest Grade One-Piece Cast Iron Stand, Cylinder and Hopper; Detachable Cast Iron Crank with Thumb Screw; Rubberoid Finished Hardwood Grip Handle. Heavy Cast Iron Gearings. Cast Iron Spiral Feed Screw, with Inserted Steel Stud in Front; Three or Four Bladed Inside Knife, Revolving against Removable Perforated Plate; Knife and Plate Made of Highest Grade Crucible Steel, Milled and Fitted with Extra Care; Cast Iron Flanged Ring Screws over Plate to hold same in Position, Heavily Tinned Finish All Running Parts Carefully Milled.

BUTCHERS' SIZE; WITH SEPARATE BASE PLATE, SLIDING BASE AND THUMB SCREW.

The Gearings on these Machines make them run with greater ease and do just as much work as the Regular Crank Pattern.

Especially Adapted for Butchers, Hotels, Restaurants, etc.; Can be used with Stuffer Attachment.

Per Dozen

No. K122G—KEEN KUTTER*, 3⅛ in. Plate with 3/16 in. Holes; Height from Table 9½ in.; Length of Cylinder 8 in.; Dimensions of Hopper 6x8 in.; Diameter of Large Gear 8¾ in.; Capacity per minute about 4 lbs.; Weight per dozen about 450 lbs. $108.00

No. K132G—KEEN KUTTER*, 4 in. Plate with 3/16 in. Holes; Height from Table 9½ in.; Length of Cylinder 9¼ in.; Dimensions of Hopper 6x7 in.; Diameter of Large Gear 8¾ in.; Capacity per minute about 5 lbs.; Weight per dozen about 600 lbs. $24.00

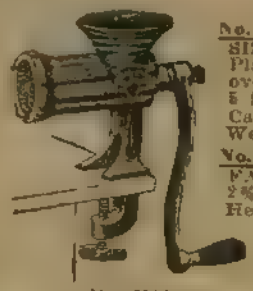
One-twelfth Dozen in a Case.

MEAT CUTTERS.

KEEN KUTTER*

Highest Grade One-Piece Cast Iron Stand, Cylinder and Hopper, Detachable Cast Iron Crank, with Thumb Screw Rubberoid Finished Hardwood Grip Handle; Cast Iron Spiral Feed Screw, with Inserted Steel Stud in Front; Four Bladed Inside Knife, Revolving against Removable Perforated Plate; Knife and Plate made of Highest Grade Crucible Steel, Milled and Fitted with Extra Care; Cast Iron Flanged Ring Screws over Plate to hold same in position; Heavily Tinned Finish; All Running Parts Carefully Milled; Can be used with Stuffer attachment

TO CLAMP TO TABLE.



No. K110

Per Dozen

No. K105—KEEN KUTTER*, FAMILY SIZE; Clamp Opens 1½ in.; 2¾ in. Plate, with 3/16 in Holes; Height over all 8¾ in.; Length of Cylinder 5 in.; Dimensions of Hopper 3x4 in.; Capacity per minute about 1½ lbs.; Weight per dozen about 80 lbs. .$31.00

No. K110—KEEN KUTTER*, LARGE FAMILY SIZE; Clamp Opens 2 to 2¾ in. Plate, with 3/16 in Holes; Height over all 12¾ in.; Length of Cylinder 6½ in.; Dimensions of Hopper 4x5 in.; Capacity per minute about 3 lbs.; Weight per dozen about 148 lbs.... 42.50

One-half Dozen in a Case

WITH SEPARATE BASE PLATE, SLIDING [illegible] AND THUMB SCREW.

No. K112.

Per Dozen

No. K112—KEEN KUTTER*, LARGE FAMILY SIZE, 2¾ in. Plate with 3/16 in Holes; Height from Table 6⅝ in.; Length of Cylinder 6½ in.; Dimensions of Hopper 4x5 in.; Capacity per minute about 3 lbs.; Weight per dozen about 142 lbs....$28.50

One-half Dozen in a Case.

No. K122—KEEN KUTTER*, BUTCHERS SIZE; 3¼ in. Plate, with 3/16 in. Holes; Height from Table 8⅜ in.; Length of Cylinder 8 in.; Dimensions of Hopper 5x6 in.; Capacity per minute about 4 lbs.; Weight per dozen about 252 lbs..... 70.00

No. K132—KEEN KUTTER* BUTCHERS' SIZE; 4 in. Plate with 3/16 in. Holes; Height from Table 8½ in.; Length of Cylinder 9¼ in.; Dimensions of Hopper 6x7 in.; Capacity per minute about 5 lbs.; Weight per dozen about 410 lbs. 98.00

One-quarter Dozen in a Case

Suitable for Chopping Meat for Sausage, Hash, Hamburg Steak, Mince Meat, Chicken Salad, Codfish for Cakes, etc.

FOLLOW THESE DIRECTIONS CAREFULLY

1st—Be sure the Knife is in the Chopper with Flat Side against the Plate.

2nd—Do not attempt to sharpen the Knife or Plate. When Dull, send them in by mail for re-sharpening. The Plate must be sharpened as well as the Knife.

3rd—Always use the same Knife and Plate together, or in pairs.

4th—Screw the Ring up moderately tight so as to be perceptible when turning the Crank.

5th—Do not turn the Crank backwards.

6th—See that the threads of Ring and on end of Cylinder are kept free from Meat.

7th—When attaching to Marble or Iron Counters, place a thin piece of Leather under the Base Piece.

STUFFING ATTACHMENT.

No. 12K—Solid Spun Brass, Nickel Plated; 5⅝ in. Long, Corrugated Spout; ⅝ in. Opening.

For Cutters Nos.	K105	K110	K112	K122
Each	$0.70	.80	.80	1.00

WRENCHES

AGRICULTURAL

Wrought Iron Bar, Head and Screw, Black Finish Hardwood Handle

Length, Inches..	6	8	10	12	15
Opens, Inches...	⅞	1¼	1⅝	2¼	2¾
Wt. Dozen, Lbs..	8¼	14½	22	26	40
Per Dozen .....$	10.00	12.00	14.00	17.00	24.00
	4.50	5.50	6.70	8.00	12.00

One-half Dozen in a Package

COES GENUINE KNIFE HANDLE

Forged Steel Bar and Jaws, Case Hardened, Hardwood Handle

Length, Inches	6	8	10	12
Opens, Inches	⅞	1¼	1⅝	2 ¼
Weight Per Dozen, Lbs..	9	15	25	38
Per Dozen	$9.00	10.00	12.00	14.00
	9.00	10.00	12 00	14.00

Length, Inches	15	18	21
Opens, Inches	2⅜	3⅛	4⅛
Weight Per Dozen, Lbs.....	54	81	109
Per Dozen	$24.00	30.00	36.00
	24.00	30.00	36.00

6 to 12 in., One-half Dozen; 15 to 18 in., One-third Dozen; 21 in., One-twelfth Dozen in a Box

HERCULES

Solid Steel Bright Finish

Length, Inches	6	8	10	12	15
Opens, Inches	¾	1⅝	2¼	3⅛	4⅜
Wt. Per Dozen, Lbs.	9	14	22	35	50
Per Dozen.....	$5.50	6.50	7.70	9.50	15 00

One-half Dozen in a Box

TRIMO SPECIAL AUTO

With Narrow Jaw

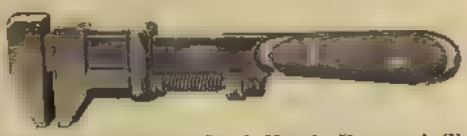
Drop Forged Steel, Case Hardened, Polished Head and Jaws, Hardwood Handle

Length, Inches	6	8	10
Takes Pipe, Inches.....	½	¾	1
Weight Per Dozen, Lbs...	6	9	18¾
Each	$2.00	2.00	2.25
	1.30	1.30	1.50

One-half Dozen in a Box

These Wrenches are designed for close quarter work places where no other wrench could operate.

PERFECT HANDLE



One Piece Drop Forged Steel Head, Bar and Shoulder, Black Finish, Waterproofed Hardwood Handle

Length, Inches	6	8	10	12
Opens, Inches	1⅛	1¼	1⅞	2 ¼
Weight Per Dozen, Lbs..	9	15	28	38
Per Dozen	$9.00	10.00	12.00	14.00
	9.00	10.00	12.00	14.00

Length, Inches	15	18	21
Opens, Inches	2¾	3⅛	4
Weight Per Dozen, Lbs.....	52	76	110
Per Dozen .....$	24.00	30.00	36.00
	24 00	30 00	36.00

6 to 12 in., One-half Dozen; 15 and 18 in., One-third Dozen; 21 in., One-twelfth Dozen in Slide Cover Box

COES GENUINE STEEL HANDLE

Forged Steel Bar and Screw, Solid Steel Jaw and Strap Bolster, Steel Handle

12 in and Larger Have Ball Bearing Screw

Length, Inches	8	10	12	15
Opens, Inches	1¼	1⅝	2¼	2⅝
Weight Per Dozen, Lbs.	17	26	43	62
Per Dozen	$10.00	12.00	14.00	24.00
	10.00	12.00	14.00	24.00

One-half Dozen in a Box

ACME

Solid Steel, Twisted Handle, Bright Finish

Length, Inches	6	8	10	12	15	18
Opens, Inches...	1	1⅛	2¼	3	3½	4½
Wt. Dozen, Lbs..	9½	15½	24	37	54	65
Per Dozen .....$	8 00	9 50	11.30	14.00	21.00	26.00

One-half Dozen in a Box

TRIMO NEW AUTO

With Narrow Jaw

Drop Forged Steel, Case Hardened, Polished Steel Handle

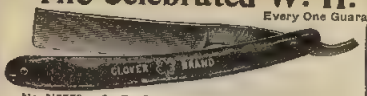
Length, Inches	10
Opens, Inches	1¾
Weight Per Dozen, Lbs.....	19
Per Dozen	$14.50
	17.00

One-twelfth Dozen in a Carton

The jaws are narrowed materially and can be used in

The Celebrated W. H. Morley & Son's Razors

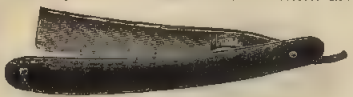
Every One Guaranteed.



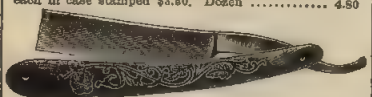
No. N5550, S. P. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, warranted best English steel, square point, file tang, finely polished blade, black rubber handle, embossed "Clover Brand;" each in leatherette case stamped $2.50. Dozen 3.50

No. N5551. As above, round point. Dozen.... 3.50

No. N5552. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, of best warranted English steel, square point blade, file tang, flat white bone handle, each in silver stamped leatherette case, marked $3.50 each. Dozen 4.75



No. N5553. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, warranted best English steel, highly polished, black round rubber handle This is a staple style, excellent finish and good quality, each in case stamped $3.50. Dozen 4.80



No. N5554. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, warranted best English steel, square point, highly polished, file tang, round black rubber handle, fancy scroll embossed on both sides; in quality and finish equal to higher price goods, each in case stamped $3.50. Dozen 5.00

No. N5555. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, warranted best English steel, hollow point, file tang, finely polished; round celluloid white handle, inlaid with silver figures, representing Hunting scene, each in case stamped $3.50. Dozen 5.25

No. N5556. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade of best warranted English steel, high glazed polish, square point, file tang, fancy design, etched in gold with wording, "Barbers Friend;" white celluloid handle, fancy embossed stag design in colors on picture background. Dozen..... 6.00

No. N5557. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade of best English steel, warranted, square point, file tang, high glazed polish, one side of blade etched in fire gilt with word, "Rattler;" white celluloid handle with fancy embossed peacock in brilliant natural colors on one side. Dozen.... 6.00

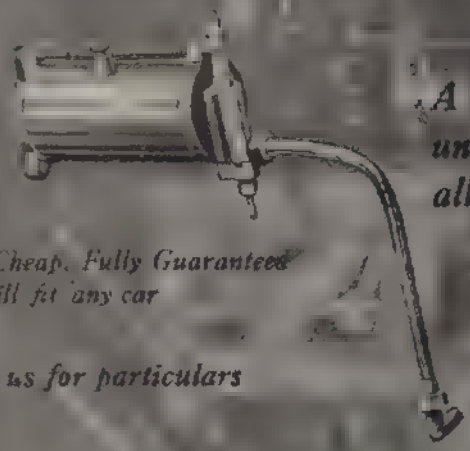
No. N5558. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade, square point, file tang, guaranteed best English steel, high glazed polish, one side of blade etched in gold, worded "Damascus;" white celluloid handle, embossed with stork design, finished in colors, very attractive. Dozen..... 6.00

No. N5559. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade of best warranted English steel, square point, file tang, double shoulder, gold etched blade with word "Clover Brand," fine white grain fancy carved handle. Dozen 7.50

No. N5560. Razor, (W. H. Morley & Sons) full hollow ground, ⅝ in. blade of best warranted English steel with round point, file tang and double shoulder, high glazed polish, center of blade on one side etched in gold with wording, "Clover Brand," each in leatherette case stamped $3.50; fancy carved black handle. Dozen 7.00

No. N5561. Razor, (W. H. Morley & Sons), full hollow ground, ⅝ in. blade of finest guaranteed English steel, smooth tang hollow point, fancy swedged curve back, high glazed polish, steel and gold etched blade, round colored lined ed, embossed on one side with flowers and an Art Female figure in natural colors, finest quality and finish in the line, each in case stamped $3.50. Dozen . .. 8.00

The Brown-Maddock Starter



A starter that starts under conditions that make all other starters fail

New, Cheap, Fully Guaranteed and will fit any car

Write us for particulars

The Brown-Maddock Co., West Newbury, Mass.

LOUIS L. LUCE, of Hoquiam, Washington, riding a Yale twin, won a perfect score in the reliability run of the Gray's Harbor Motorcycle Club, Sept. 21.

It was his 41st birthday.

The indomitable power of the "Big Y" carried him to victory over 140 miles of bad roads and trying conditions. With his Yale, this man, more than 40 years old, surpassed the efforts of many younger and more athletic riders on other mounts.

THE SUPREME CAPABILITY OF THE YALE INSURES SUCCESS ON THE ROAD. IT IS THE CHOICE OF THE VETERANS, THE OLD-TIMERS WHO KNOW FROM EXPERIENCE THE KIND OF MACHINE THAT WILL ACHIEVE MOST.

Such ROAD ACHIEVEMENTS are significant, for these victories were won under road conditions such as the average rider meets, with stock machines just like those sold by every Yale dealer. They prove the sort of ability that gives road leadership.

The Consolidated Mfg. Co.

1751 Fernwood Ave., TOLEDO, OHIO

EASTERN REPRESENTATIVE: F. C. Cornish, 219 Clinton Ave, Newark, N. J.

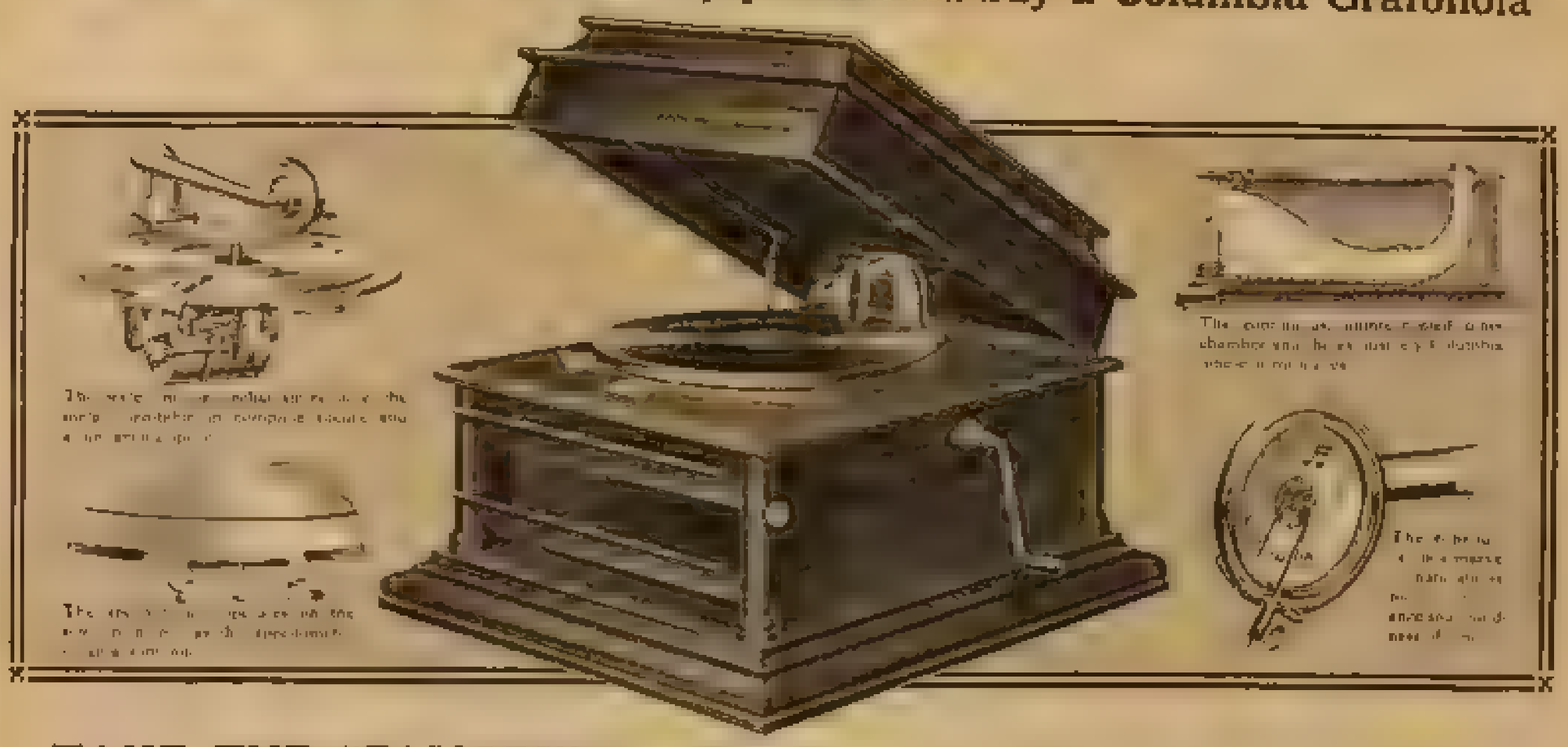
PACIFIC COAST REPRESENTATIVE: The Yale-California Company, 511-512 L. A. Investment Building, Los Angeles, Cal.

Makers also of YALE and SNELL BICYCLES, HUSSEY HANDLEBARS, STEEL TUBING, BENT PARTS, all kinds of DROP FORGINGS.

Tone-

Columbia
Note the Notes

that is not the *only* reason why you should buy a Columbia Grafonola



TAKE THE "FAVORITE" AT $50 AS A BRILLIANT EXAMPLE: GREATLY IMPROVED, BUT THE PRICE REMAINS THE SAME

(and the easy terms of purchase, too $5 a month

Important Notice.

COLUMBIA

Graphophone Company, Box 230, Woolworth Bldg., New York Toronto, 363 Sherbrooke Ave.

Dealers and prospective dealers write for a confidential letter and a free copy of our book, "Music Money"

All the Music of all the World

Columbia

No one thing gives so much real pleasure, to so many people, for so long a time, at so little cost, as a Columbia Grafonola — "the one incomparable musical instrument."

COLUMBIA GRAPHOPHONE COMPANY

Columbia
Note the Name

HISTORY AS IT MIGHT HAVE BEEN (AND IN THIS CASE PARTLY WAS)

THE VIEW OF THE PROMISED LAND

"Love's Fire Burns Forever"
1914 "Pompeian Beauty" Calendar

$250.00 for Clever Ideas

He: *I have a confession to make. I—*
She:—*You're using Pompeian, too! I knew it! Your skin looks so clear, clean, and wholesome. All of us use it! Isn't it great?*

For the cleverest bits of talk (or poems) suited to the picture at the left, the makers of Pompeian Massage Cream will pay the following prizes: (1st Prize $150), (2nd $50), (3rd $25), (4th $15), (5th $10).

Note 1. Contest is free. Note 2. But you may enclose (without a contest idea) the coupon below and 10c if you wish a trial jar of

POMPEIAN
Massage Cream

and a 1914 Art Panel of above picture in exquisite fireglow effects. Size, 32x7¼ inches. No advertising on front. An art store would have to charge 50c to $1 for a picture as well executed. "LOVE'S FIRE BURNS FOREVER" is the picture hit of the year and was named by J. S. Kirk, of 1403 Lenox Ave., Philadelphia, Pa. He won the $100 prize in our contest last Spring.

Rules—1. Write your bit of talk or poem carefully at the top of your paper. Then your name and address. Write nothing more on the paper. 2. Forty words or less allowed for bit of talk or poem. The shorter the better. 3. Only one suggestion from one person. 4. No questions can be answered. 5. Contest closes Dec. 1st, 1913. 6. Prize winners to be announced in the Jan. 17th issue of The Saturday Evening Post. 7. Prizes will be awarded on clever advertising value of suggestions. Your statements about Pompeian Massage Cream must be correct and truthful or your suggestion cannot win a prize, so read the following carefully for points

If you need time to work up your idea, you had better get Trial Jar and reserve calendar now

Cut out this offer, save and talk it over with your family. Two heads are better than one

"How to look my b[illegible]" The [illegible] on for man or woman when preparing for an evening's engagement. Here [illegible] answer. On each check apply a pinch of Pompeian Massage Cream. M[illegible]sage vigorously. Into the pores the Pompeian goe[illegible] out it comes darkened and dirt-laden and—Presto! You are transformed. Your skin looks clear a[illegible] clean, for Pompeian has brought out the pore dirt. The massage with Pompeian has also stimulated your [illegible]ish circulation and brought a natural, healthy [illegible]. No ordinary cream can do this. M[illegible] [illegible]r fa[illegible] and the tired lin[illegible] dued, for the invigorat[illegible] Pompeian r[illegible] relaxed the tightened muscles of your fac[illegible] fully. Look your best! "Don't envy a good complexion, use Pompeian and have one."

WARNING! Cheaply made imitations are offered by certain dealers because they cost the dealer less and he makes more—at your expense. Get the original and standard massage cream. Get Pom[illegible] [illegible] and $1

Get Trial Jar and Have Calendar Reserved
(READ COUPON CAREFULLY)
THE POMPEIAN MFG. CO., 36 Prospect Street, CLEVELAND, O.

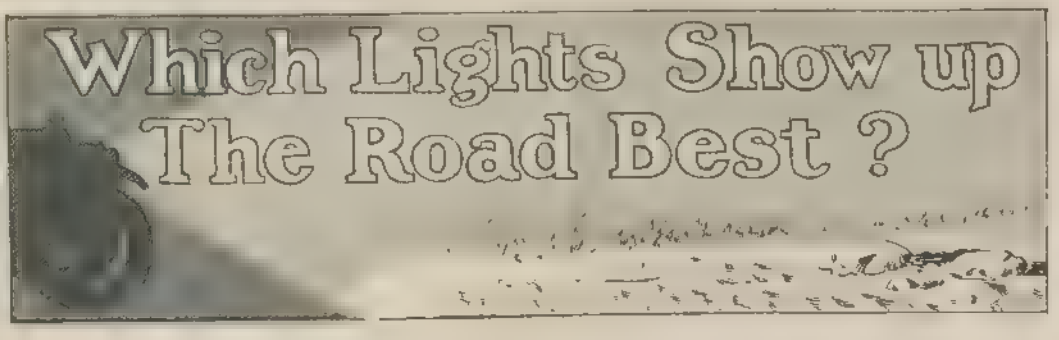
[illegible] sign and send. Stamps accepted coin preferred

The Pompeian Mfg Co 36 Prospect St Cleveland, Ohio
Gentlemen: Enclosed find 10c (coin [illegible]) I understand you will send a trial jar of Pompeian Massage Cream at once, and a 1914 Art Panel about Nov. 15th of this year

★
Name
Address
City State

If what you want is not advertised on these pages, see page 6 of this issue

Which Lights Show up The Road Best ?



Do you want a powerful glare for your lights to blind and confuse an approaching car or team?

Or do you want lights to search out the ruts and inequalities of the road? The illustrations of the lamps here show the difference.

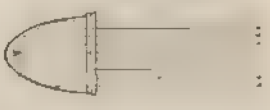
Any experienced driver will tell you that with Prest-O-Lite at night, he sees the inequalities of the road even better than by sunlight. This effect is impossible with lamps that concentrate the rays into one blinding glare.

This is but one of the many questions you must consider before you accept any lighting system.

Convenience may appeal to you strongly. With the Prest-O-Liter or any other good automatic lighter, gas lighting affords you every convenience. You can easily light or extinguish gas head, dash or tail lights from the seat.

But the big feature in your choice of a lighting system for your car should be reliability. Over Five hundred thousand experienced drivers will testify to the absolute reliability of Prest-O-Lite. Its exchange service extends everywhere. There are no repairs to make. And considering the cost of power consumed, replacements and repairs on other systems, Prest-O-Lite is by far the most economical.

1-4 Mile Ahead



The lamp with a parabolic reflector directs its blinding rays far ahead but cannot diffuse the light to show the ruts in the road directly before the car.

40 Feet Ahead

Prest-O-Lite with a concave reflector gives all the light you need far ahead but also concentrates light on the road in front of the car where you need it most.

No matter what self-starter you have on your car insist on gas lighting. Self-starter convenience is safeguarded by the use of the crank in emergencies. It is even more important that lighting convenience be safe-guarded by the use of a match to insure light in emergencies. Almost any manufacturer will equip your new car with Prest-O-Lite and an automatic lighter if you insist. If your car is now equipped with Prest-O-Lite, any dealer or any of our service stations can install an automatic lighter at small expense.

By all means, before you decide on any lighting system, send for the vital facts on automobile lighting. The coupon attached will bring you a free book on this subject by return mail. Send for it NOW and know the facts.

The Prest-O-Lite Co., 213 E. South Street INDIANAPOLIS, IND

Canadian Factory and Branch Office, Merritton, Ont.

BRANCHES: Atlanta, Baltimore, Boston, Buffalo, Chicago, [illegible], Denver, Detroit, Indianapolis, Jacksonville, Kansas City, [illegible]

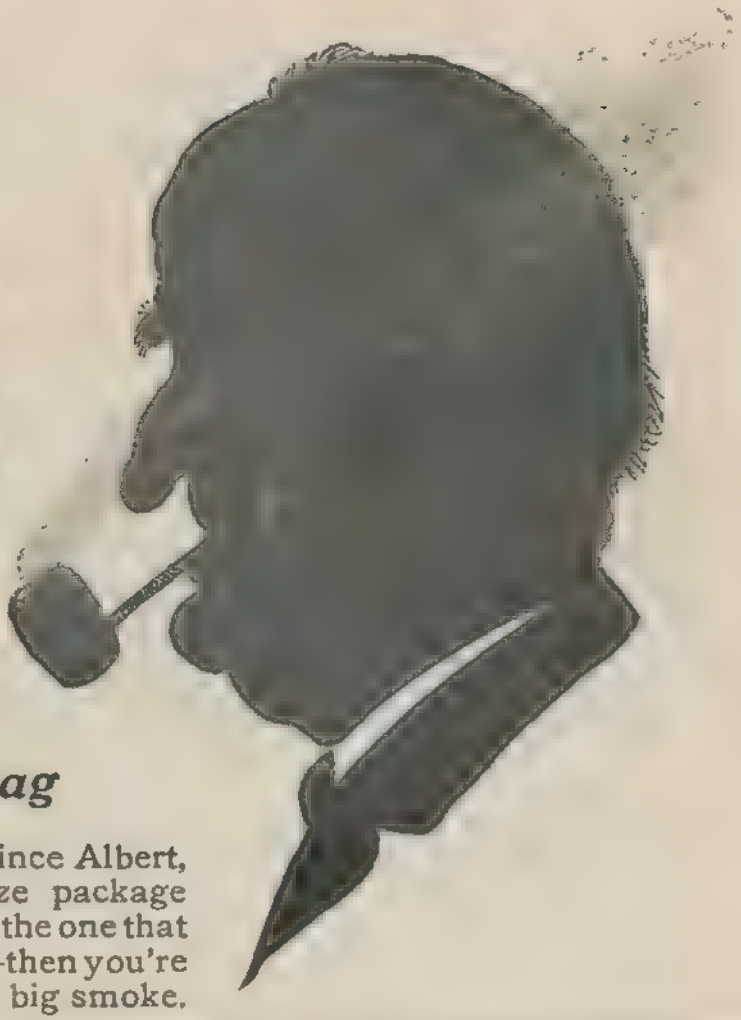
Insist on Gas Lighting

THE PREST-O-LITE CO.
213 E. South St., Indianapolis, Ind.
Please send me your Free Booklet,
"Light on the Lighting Problem"

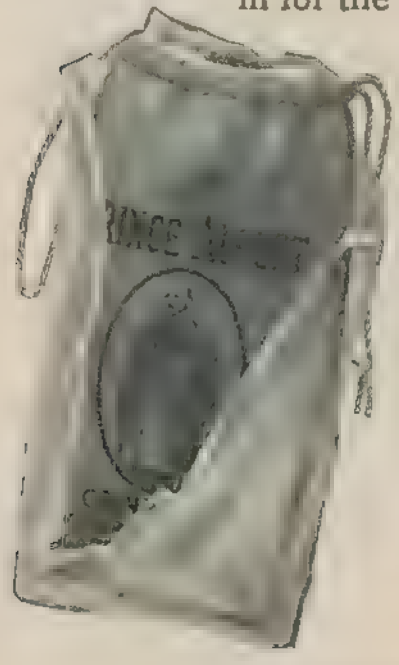
You sure can buy PRINCE ALBERT

the national joy smoke

in the toppy 5c weather-proof bag



It's all real and true Prince Albert, no matter in what size package you prefer it. Just order the one that hits you favorable-like—then you're in for the big smoke.



That 5c toppy red bag is built for folks who want a small package to tuck away in their jeans—just as others demand the tidy red tin because it slips into coat pockets and hip pockets.

It's up to you to cut loose with a jimmy pipe jammed brimful of P. A., or roll up a cigarette and get some fun out of life. P. A. can't bite your tongue, because the bite's cut out. Every particle means just so much joy smoke—to you, to every man who's pipe hungry.

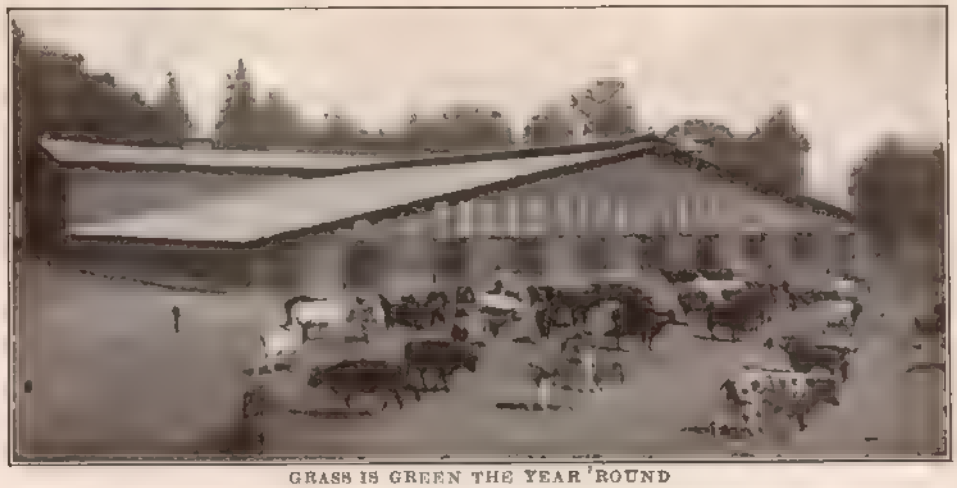
Buy Prince Albert everywhere. In the 5c toppy red bag, 10c tidy red tin and handsome pound and half-pound humidors.

R. J. REYNOLDS TOBACCO COMPANY
Winston-Salem, N. C.

Says Hunch:

"After all, *it's the tobacco*, not the package, that puts Prince Albert in the spot-light. Get yours while the getting is good."

Farm in Winter
ON PUGET SOUND



GRASS IS GREEN THE YEAR 'ROUND

The *ideal dairy, poultry, vegetable* and *berry land* of the United States is *in Western Washington*, near Seattle. Here the climate is equable and healthful; *cool* in *summer* and *warm* in *winter.*

TWO CROPS OF STRAWBERRIES EACH YEAR

There is NO NEED OF putting in WINTER FEED for stock in Western Washington.

There are no EXTREMES of HEAT or COLD to cut down poultry receipts.

The *rich soil* of the *logged-off lands* on Puget Sound *produces two crops* of *strawberries each year*, the first in summer and the second in early fall.

The *bottom lands* of Western Washington produce the *heaviest wheat crop* per acre in the Northwest, running as high as 170 *bushels to the acre.*

The fruits, potatoes, celery and all kinds of vegetables are of *great size* and yield *enormous returns* to the acre.

BUY A WESTERN WASHINGTON RANCH.

Be your own boss and gain independent *riches* amid the beautiful surroundings, the *even* and enjoyable year-'round climate, from the *fertile* and *low-priced* farms on Puget Sound.

For *detailed information* regarding *Seattle* and *Western Washington*, write

Exploitation and Industrial Bureau

New Chamber of Commerce **Seattle, U. S. A.**

BY AN OLD MASTER

FATIMA
TURKISH
BLEND
CIGARETTES

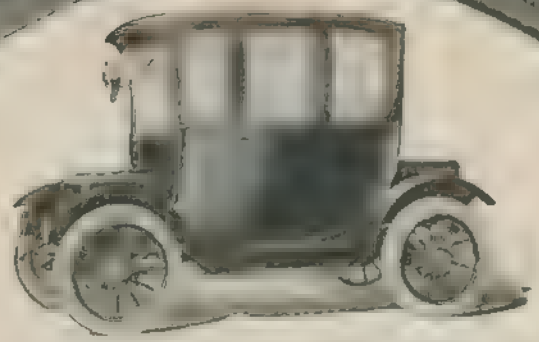
"Distinctively Individual"

Pure and wholesome—mild, fragrant and wholly different in taste

Fatima, the cigarette of marvelous Turkish blend, takes a prominent place among the little luxuries of life. Correct for every occasion when men smoke

Liggett & Myers Tobacco Co

15¢ *the Package*



SOCIETY'S PREFERENCE IS INVARIABLY THE BEST

Those of good taste and judgment appreciate the difference between the Rauch & Lang Electrics and cars that are made in a hurry.

There will always be buyers for the ordinary electrics—but so long as the Rauch & Lang remains so superior in quality—so excelling in correctness of appearance and equipment—it will be the choice of society—the car of social prestige.

It has been the same since we first began making vehicles—over 60 years ago.

The coaches of royalty were no more correct in detail, according to their periods, than the Rauch & Lang Electric of today. The owners of Rauch & Lang vehicles are invariably the most prominent in their respective communities.

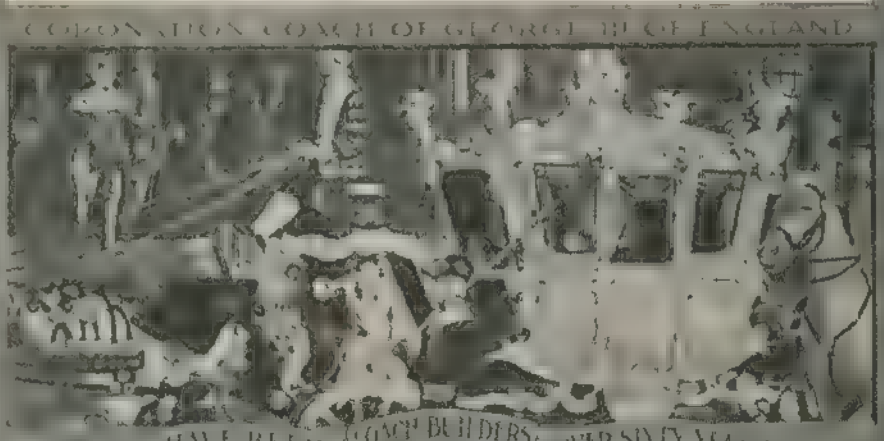
The extreme care bestowed on electrics bearing our name, restricts us to a limited production.

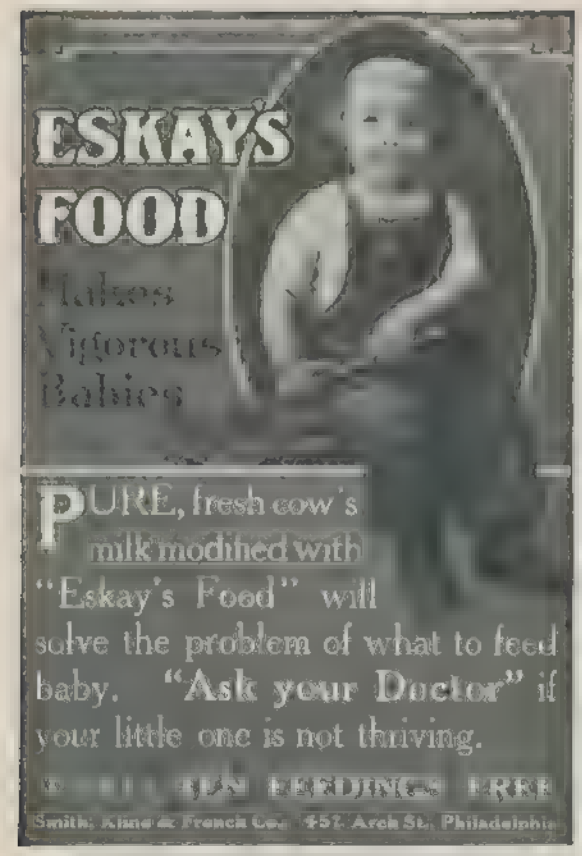
Demonstration strictly by appointment.

Agencies in all principal cities.

THE RAUCH & LANG CARRIAGE COMPANY
2420 West Twenty fifth Street

Cleveland Sixth City





PURE, fresh cow's milk modified with "Eskay's Food" will solve the problem of what to feed baby. "Ask your Doctor" if your little one is not thriving.

FREE FEEDING

Smith, Kline & French Co. 451 Arch St. Philadelphia

So Refreshing!

You will enjoy its True Rose Fragrance

If you would know what a *perfect* Toilet powder is, one that can be used freely on the face or on the body then try

JAP ROSE

FACE AND BODY

Toilet Talcum Powder

Perfectly suited for *all* Toilet and Nursery purposes. Covers instantly and completely and leaves no "powdered look." Soothing, absorbent and antiseptic. *"It Completes the Complexion."* One never tires of its use.

Send 20c in silver or stamps for a JAP ROSE WEEK END BOX containing a miniature of Jap Rose Soap, Talcum Powder and Perfume.

JAMES S. KIRK & CO.
325 E. Michigan St., CHICAGO, U. S. A.

There is no way we know of to stop and prevent superfluous hair-growth *permanently.*

Evans's Depilatory Powder

will remove hair-growth thoroughly and for a considerable time, and is perfectly harmless. It will not cause irritation nor injure the skin.

Convenient—Comfortable—Safe

A bottle lasts a year

50 cents With complete mixing outfit. At drug- and department-stores. If your dealer hasn't "Evans's" send us his name and 50 cents and we'll send you a package postpaid. Or send 10 cents and your dealer's name and we'll send you a sample.

GEORGE B. EVANS
1104 Chestnut Street Philadelphia

RICHELIEU & ONTARIO NAVIGATION CO.
LIMITED

NIAGARA To THE SEA

THE grandest trip in America for health and pleasure. It includes the Thousand Islands, the exciting descent of the marvelous Rapids, the historic associations of Montreal, Quebec and the famed Saguenay River with its stupendous Capes, "Trinity" and "Eternity."

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"MANOIR RICHELIEU" Murray Bay, P. Q.
"HOTEL TADOUSAC" Tadousac, P. Q.

Immunity from Hay Fever and Malaria

Send 6 cents postage for illustrated guide to

H. FOSTER CHAFFEE
Passenger Traffic Manager
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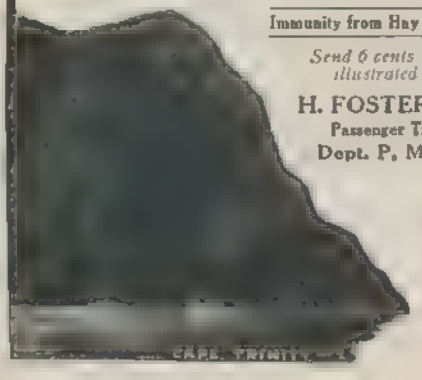

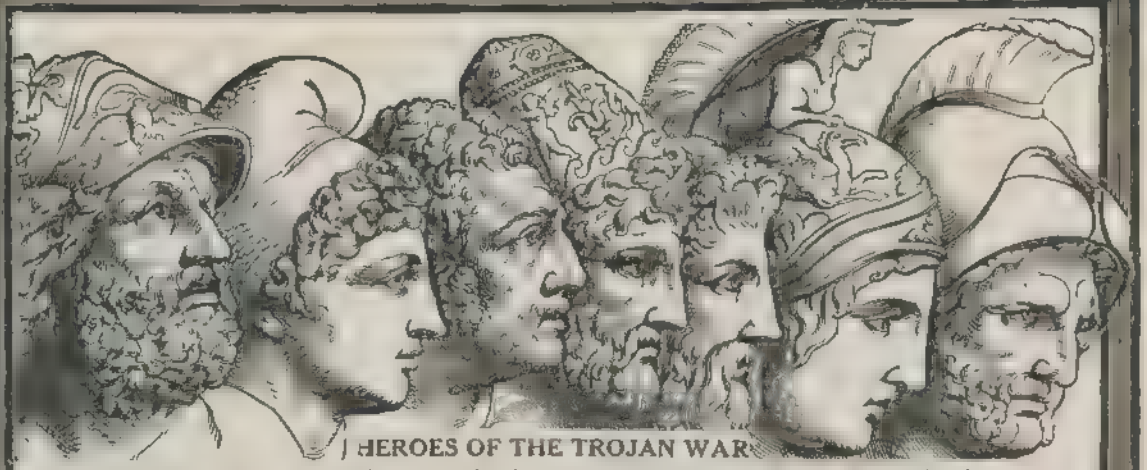

HEROES OF THE TROJAN WAR

THE TROJAN WAR has acquired an immortality of fame through the poems of Homer. The abduction of Helen, the most beautiful woman of Greece the expedition against Troy for her recovery, the siege of the city for ten years, its final capture through the device of the Wooden Horse, the recovery of Helen and her triumphant return to her Grecian home forms a story of love, valor and heroism that will live for all time. This is but one event out of thousands which are fully described and illustrated in the world-famed publication,

Ridpath's History OF THE World

We will **name** our **special low price** and **easy terms** of payment only in direct letters. A coupon for your convenience is printed on the lower corner of this advertisement. **Tear off the coupon, write** your **name** and **address** plainly and **mail.** We do not publish our special low price for the reason Dr. Ridpath's widow derives her support from the royalty on this History, and to **print our low price** broadcast would cause injury to the sale of future editions.

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8-13 FREE COUPON

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Please mail free, 46 page sample booklet of Ridpath's History of the World [illegible] containing portraits of Napoleon Caesar, Elizabeth, Socrates, Caesar and Shakespeare [illegible] gram of Panama Canal [illegible] and write me full particulars [illegible] special offer to Cosmopolitan readers.

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You can get good pictures just as soon as you get a

PREMO

You need no previous experience, no technical knowledge. Step into the dealer's to-day and see for yourself, how easy Premos are to load and operate, how light and compact, and how altogether desirable.

This picture is from a negative made with the Premoette Jr. No. 1, a marvelously compact little camera which will slip into any pocket, or a lady's handbag, and costs but $5.

And then there are the Film Premos No. 1, just as simple to operate, but making larger pictures —3¼x4¼, $10.00; 4x5, $12.50; 3A (post card size), $12.50—and many other models ranging in price from $1.50 to $150.00.

Get the new Premo catalogue

A book that no one interested in photography should be without. It describes the many Premo advantages fully—the daylight loading Film Premos, the Premos that take films or plates with equal facility, the Premo Film Pack and tank developing system.

It's free at the dealer's, or will be gladly mailed to any address on request.

Rochester Optical Division
Eastman Kodak Co. Rochester, N. Y.

From a Premoette Jr. No. 1 Print
Actual Size

The Stearns-Knight Car--

The Choice of Men Who Choose From All the World

For years the Stearns-Knight car was the choice of a thousand famous men who were the leaders in the whole world of demanded the best.

valve motor. They knew, too, of the unbroken records made by Knight type motors in the leading European events.

All of these people, we repeat—successful motorists—had a new standard of values and comparisons of the type of

These thousand men took our entire output. Others of them also wanted our car but could not get it. They wanted a car of greater power. Now we announce such a car.

THE SIX-CYLINDER STEARNS-KNIGHT

In sheer, exhilarating power this new model is a worthy successor to the old 30 (60 H. P. Stearns—one of the greatest cars the world has ever known. In silence, flexibility and ease of control, in comfort and convenience, it is a supreme achievement even for a car bearing the Stearns name.

The equipment is absolutely complete. It includes Gray & Davis electric starting and lighting system, Warner Auto-meter, top, windshield, Mea-i-regulo, Kaxton horn, demountable rims, and many other appointments.

Seven-passenger Touring Car		$5000
Five	" " "	4850
Four	" light " "	4850
Three	" Roadster	4850
Limousine		6100
Landaulet		6200

Catalog and descriptive matter upon request

The F. B. Stearns Co., Cleveland, Ohio

Branches and Dealers in 125 Principal Cities

Stearns
THE ULTIMATE CAR
(KNIGHT TYPE MOTOR)

LEADERS OF MEN

THE ARMY

SHORTER COLLEGE ROME, GA.

A High Grade Institution For Young Women. Beautifully located near the Mountains in the most healthful section of the South—not a death in the College during the forty years of its existence. Every convenience of modern home. Only two girls to a room, with large study between every two rooms. Every building of re-enforced concrete, absolutely fire-proof, thoroughly modern. Five of the 18 buildings planned just completed. 155 acres in grounds and campus. Faculty chosen from finest American and European Universities. Full [illegible] A B degree [illegible] M [illegible] Art [illegible] Special [illegible] to Physical Development. Catalog on request. **Box 18, Rome, Georgia**

Hollins College For Young Women

Founded 1842. College Course (4 years), College Preparatory (2 years), Music, Art, etc. On an estate of 700 acres, in the beautiful Valley of Virginia, 7 miles north of Roanoke. Buildings equipped for 250 students and 35 officers and teachers. Catalogue and views.

Miss MATTY L. COCKE, President, Box 305, Hollins, Virginia

CONVERSE COLLEGE

A standard college for women. No preparatory department.

Delightfully located 35 miles from the Blue Ridge Mountains in a section famed for its healthfulness and scenic beauty. 800 feet above sea level. All college departments and especially efficient departments in Art and Music.

Booklet and full information upon request.

ROBERT P. PELL, Litt. D., President. Spartanburg, S. C.

BRENAU COLLEGE CONSERVATORY

In the heart of the Old South; alive with the spirit of the New

GAINESVILLE, GEORGIA
Fifty Miles from Atlanta

An institution which appeals to the best class of young women offering highest educational as well as social advantages. Courses of study of every variety, adapted to the needs of women. Rate $350 to $500. A loan fund for worthy girls. A beautiful illustrated catalog will explain all of the pleasures and advantages of the college life. It will be sent free to prospective students and parents. *Address:* BRENAU, Box B. Gainesville, Georgia.

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LYNCHBURG, VIRGINIA

One of the leading colleges for women in the United States, offering courses for A. B. and A. M.; also Music and Art. Four laboratories, library, astronomical observatory, gymnasium, swimming pool, athletic grounds, large campus. Endowment **(recently increased by $250,000)** reduces cost to $300 **for full literary course. Officers and instructors, 58. Students, 576, from 40 states and countries.** For catalogue address

N. A. PATTILLO, Ph. D., Dean, Box 11

1853 — Maryland College — 1913

FOR WOMEN

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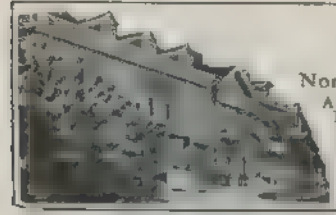

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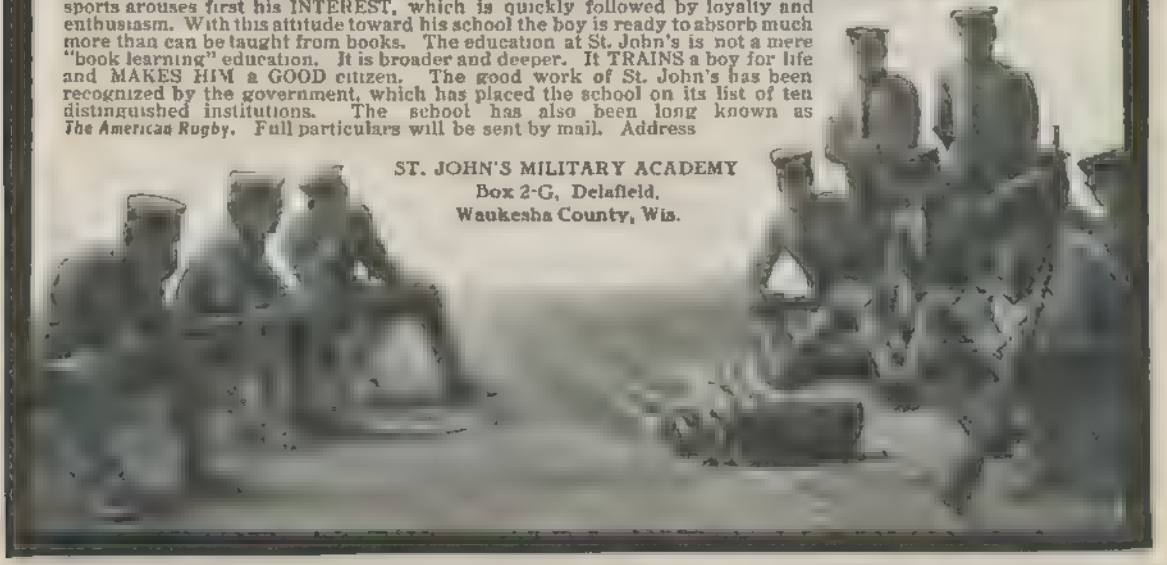

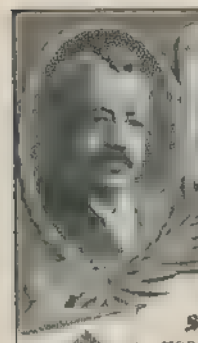

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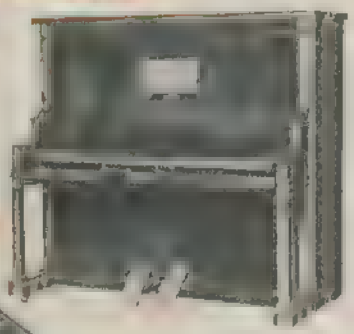

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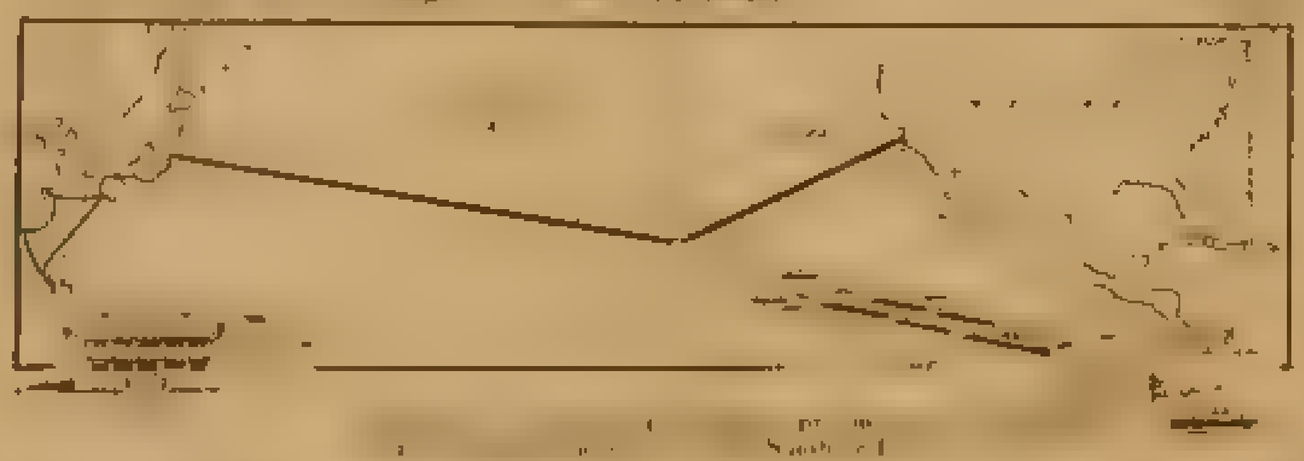

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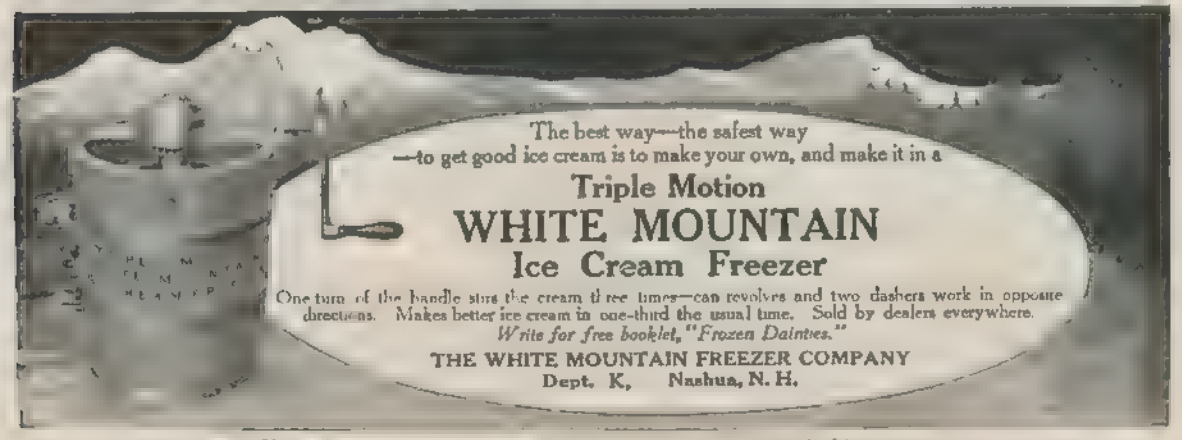

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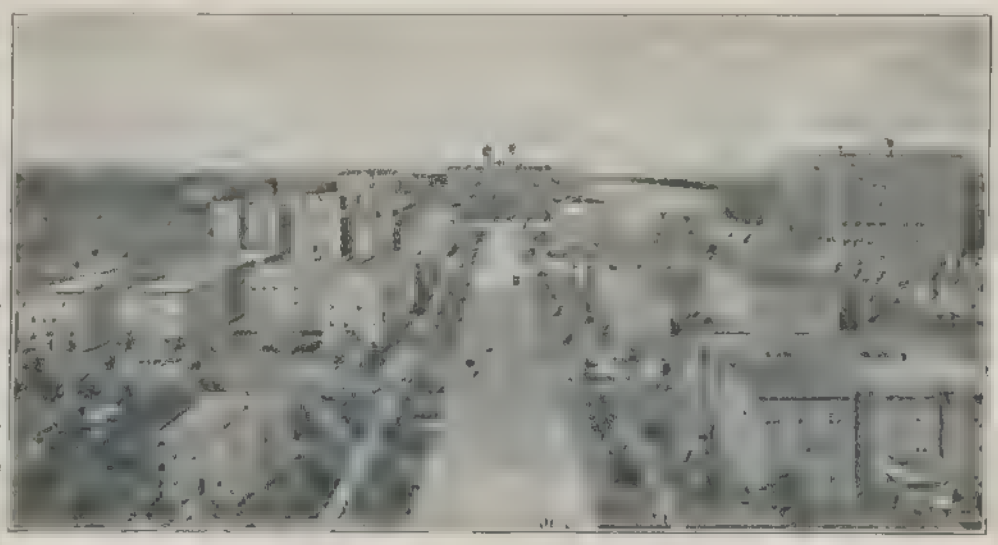

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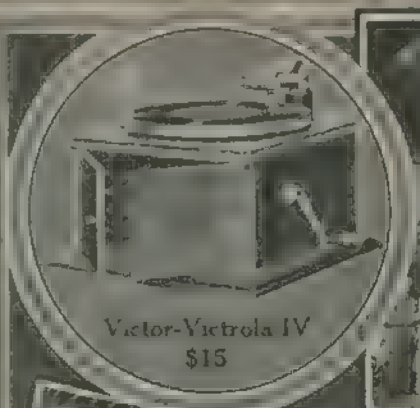

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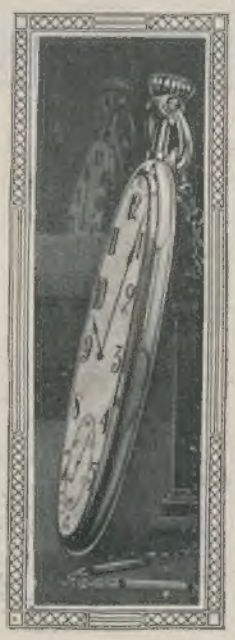

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